

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIVS.	38 Cuttack April 26, '90	Nil	Weather—seasonable. Lands are being prepared for <i>bauli</i> paddy.
	39 Pooree ...	...	Report not received.
	40 Balasore „ 26, '90	0.06	Weather—warm. Cultivation much benefited by rain in the Bhuddruck sub-division and parts of the Sudder sub-division. Number of coolies on tank works has fallen to 92 owing to heavy rainfall.
CHOTA NAGPORE.			
<i>South-West Frontier Agency.</i>			
CHOTA NAGPORE DIVS.	41 Hazaribagh April 26, '90	Nil	Weather—seasonable; very hot. Sugarcane doing well. <i>Molus</i> harvest nearly finished. Mango injured by high wind.
	42 Lohardugga „ 26, '90	Nil	Weather—seasonable. Lands are being ploughed for early rice. Mangoes in abundance.
	43 Singbhoom „ 26, '90	Nil	A little rain in eastern part of Dhalbhoom. Weather very hot; thermometer 105° and 106° in shade. Very cloudy this morning (26th). Sugarcane is being planted. <i>Molus</i> and mango generally doing well. Prices continue to be easy.
	44 Manbhoom „ 26, '90	0.46	Weather—windy; rain threatening. Slight rain during the week has facilitated ploughing. No crop on the ground except sugarcane.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 29th April, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from
20th to 26th April 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
April	20th	154.5	8.6	29.776	86.3	94.7	15.4	79.3	78.6	0.679	75.3	71	SW, SSW and variable.	135	Nil	Partially cloudy, o, t, <.
"	21st	151.3	8.3	29.689	84.1	93.4	17.1	76.3	75.2	0.691	75.7	77	SSW, SSE and variable.	194	0.96	Partially cloudy, p, t, <, ▲.
"	22nd	148.4	8.6	29.631	85.4	91.6	18.6	73.0	80.7	0.990	78.0	81	SSE, SSW and S ...	195	Not measurable.	Partially cloudy, t, <, d.
"	23rd	150.0	8.7	29.598	88.1	97.5	17.1	80.4	81.6	1.004	79.4	76	SSW and S ...	182	Nil	Chiefly clear.
"	24th	154.6	8.8	29.551	90.0	105.6	25.4	80.2	80.6	0.923	76.8	69	SSW, S and variable	154	"	Clear.
"	25th	149.7	6.6	29.577	88.6	98.4	19.0	79.4	81.6	0.987	78.8	74	S and variable ...	61	"	Chiefly cloudy, o.
"	26th	149.6	5.3	29.701	85.0	94.0	16.8	77.2	77.6	0.860	74.8	71	SSE and variable ...	58	0.03	Chiefly cloudy, o, t, <, d.

The mean pressure of the seven days ...	29.646
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29.737
The total number of hours of bright sunshine ...	55.1
The maximum possible number of hours of sunshine ...	89.5
The mean temperature of the seven days ...	86.8
The average temperature of the corresponding period for 24 years, S.-G.'s Office ...	84.4
The extreme variation of temperature ...	32.6
The maximum temperature ...	105.6
The highest velocity of the wind in one hour ...	17
The highest pressure of wind on one square foot ...	Approximately 7
The mean relative humidity ...	74
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office ...	72

The total fall of rain from 20th to 26th April 1890 ...	0.99
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0.86
The total fall from 1st January to 26th April 1890 ...	2.09
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	4.46

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph. The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, t thunder, < lightning, p passing temporary showers, d drizzling rain, ▲ hail.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 28th April 1890.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.			STATION OBSERVATIONS.															
			DISTRICT.	Representative station.	AIR PRESSURE.			WIND.		TEMPERATURE.								
					Mean barometric height, S.A.S.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Days.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean S.A.S. temperature.
OAHMA.			Poorce	Poorce	29.740	29.761	—	SW	467	89.3	21st April	80.8	19, 20, 24 April.	83.1	80.9	84.5	—	82.3
				Gopalpore	29.745	29.767	—	SSW	889.7	80.3	19, 21	78.8	19th	85.6	80.4	83.2	+0.1	83.3
				False Point	29.735	29.756	—	SSW	473.0	90.5	23th	79.3	19th	89.4	84.9	84.9	+0.6	85.0
			Cuttack	Cuttack	29.672	29.735	—	SW	161.9	108.0	25th	78.4	19th	120.0	79.9	92.4	+3.2	86.3
			Balasore	Balasore	29.665	29.724	—	S	253.6	104.5	24th, 25th April	73.8	21st	97.6	78.3	88.0	+1.6	84.6
			South-West Midnapore	Saugor Island	29.717	29.743	—	SSW	286	92.7	24th	70.0	19th	91.3	81.9	86.6	+1.3	85.9
			Midnapore	Midnapore	29.674	29.734	—	S	198.2	113.4	23th	77.1	21st	100.1	78.7	93.0	+3.3	88.3
			24-Pergunnahs	Calcutta	29.707	29.789	—	SSW	178	105.4	23th	78.2	22nd	95.4	77.8	89.5	+0.9	84.6
			Howrah	Howrah	29.613	29.713	—	South-westerly.	122.3	108.7	23th	71.9	20th	100.1	77.9	89.0	+0.7	83.8
			Hooghly	Hooghly	29.407	29.706	—	Calcutta	120.0	111.3	25th	67.8	19th	103.3	76.3	89.3	+0.4	84.2
			Burdwan	Burdwan	29.306	29.730	—	ESE	145.0	110.7	23th	70.9	19th	101.3	77.0	89.1	+0.6	83.3
			West Burdwan	West Burdwan	29.680	29.728	—	E	109.8	103.3	23th	73.3	19, 20 & 22 April	96.0	74.9	85.8	—2.1	78.4
			Moorsheadabad	Moorsheadabad	29.679	29.727	—	SSE	178.6	106.6	23th	68.1	19th	97.7	74.0	88.0	+0.2	80.6
			Nuddea	Krishnagar	29.711	29.745	—	SE	108.1	96.8	23th	70.9	19th	83.5	76.6	84.5	—1.0	81.9
			Jessore	Jessore	29.735	29.785	—	SE	145.7	81.3	20th	70.0	21st	87.9	74.4	81.1	+0.1	78.6
			Khoolna	Khoolna	29.711	29.745	—	SE	108.1	96.8	23th	70.9	19th	83.5	76.6	84.5	—1.0	81.9
			Chittagong	Chittagong	29.735	29.785	—	SE	145.7	81.3	20th	70.0	21st	87.9	74.4	81.1	+0.1	78.6
			Chittagong Hill Tracts	Demagiri	Observations not received.													
			Backergunge	Barrisal	29.755	29.767	—	S	149.2	92.8	24th April	68.9	22nd	90.0	74.8	82.4	—0.7	81.9
			Noakholly	Noakholly	29.784	29.808	—	SE	153.9	96.0	21st	67.8	21st	87.3	72.8	80.1	—3.8	69.3
			Farredpore	Farredpore	29.732	29.773	—	SE	150.0	94.3	23th	69.9	22nd & 23rd April	85.3	72.9	80.7	—2.9	79.6
			Dacca	Dacca	29.746	29.769	—	SE	179.8	98.1	23th	68.2	19th	89.0	73.0	80.8	—3.8	78.2
			Comilla	Comilla	29.764	29.799	—	South-easterly.	200.2	97.8	23rd	64.4	0th	81.4	71.6	81.4	—0.5	79.0
			Mymensingh	Mymensingh	29.758	29.787	—	ESE	146.7	91.2	23th	64.7	19th	84.6	69.0	77.4	—4.3	76.4
			Sogra	Sogra	29.685	29.740	—	ENE	114.4	92.7	23th	68.1	19th, 20th April	86.1	71.6	78.8	—0.7	76.9
			Patna	Sonajunge	29.714	29.762	—	South-easterly.	131.9	92.0	23th	67.9	19th	85.9	71.8	78.8	—0.7	76.1
			Rajshahy	Rampore Beau- loah.	29.673	29.744	—	ENE	97.7	96.6	23th	69.2	20th	80.9	72.7	81.3	—4.5	77.4
			Maldah	Maldah	29.676	29.758	+0.23	E	94.5	98.5	23th	68.5	19th	92.7	73.7	82.7	—2.0	78.9
			Dinapore	Dinapore	29.686	29.778	—	ENE	126.4	92.1	1st & 23th April	67.2	19th	88.5	71.0	80.1	—3.8	76.2
			Rangpore	Rangpore	29.606	29.793	—	E	61.3	91.6	20th	66.1	19th	86.8	71.3	79.0	—1.2	76.0
			Jalpigore	Jalpigore	29.678	29.770	—	?	269.7	88.6	23th	63.9	19th	84.7	66.8	76.0	—1.8	75.0
			Cooch Behar	Cooch Behar	29.678	29.770	—	?	269.7	88.6	23th	63.9	19th	84.7	66.8	76.0	—1.8	75.0
			Darjeeling Hill Tracts	Darjeeling	29.501	—	—	WSW	155.0	84.4	23th	66.7	19th	68.1	58.2	58.1	—0.1	34.8
			Purneah	Purneah	29.634	29.762	—	ENE & ESE	116.3	96.7	23th	67.6	19th	93.2	73.0	83.1	—1.3	78.4
			North Bhagalpore	North Bhagalpore	29.634	29.762	—	ENE & ESE	116.3	96.7	23th	67.6	19th	93.2	73.0	83.1	—1.3	78.4
			Moonsherpore	Moonsherpore	?	?	?	ESE	?	101.9	19th	74.3	19th	95.7	76.5	84.6	—	79.9
			Durbhanga	Durbhanga	29.578	29.747	—	ESE	178.0	97.6	24th	?	?	93.6	?	?	?	79.6
			Chumpra	Motihari	29.516	29.746	—	ESE	215.4	89.2	21th	68.5	19th, 20th April	96.8	74.0	84.9	+1.6	81.3
			Baran	Baran	29.344	29.717	—	E	179.1	103.2	23th	68.7	23th	100.0	73.5	83.8	+0.7	83.2
			Shahabad	Dehra	29.385	29.784	—	W	145.3	110.9	23th	74.2	21st	100.4	79.4	82.9	+4.6	89.0
				Huzar	29.475	29.715	—	ENE	168.1	106.4	23th	70.8	20th	112.5	78.0	80.7	+3.3	85.6
				Arrah	29.511	29.706	—	E	213.7	107.4	23th	72.7	23th	100.5	77.0	89.7	+3.1	83.9
			Gya	Gya	29.434	29.716	—	E	163.9	106.6	23th	72.3	20th	100.9	73.6	88.3	+0.3	82.1
			Patna	Patna	29.434	29.716	—	E	163.9	106.6	23th	72.3	20th	100.9	73.6	88.3	+0.3	82.1
			South Bhagalpore	South Bhagalpore	29.362	29.726	—	E	83.7	102.7	23th	70.0	19th	94.9	74.4	84.7	—1.0	78.7
			Monahal Pergunnah	Dooma	29.331	29.721	—	Easterly	180.0	106.6	23th	67.9	20th	96.2	75.2	85.8	—3.4	80.1
			Bansibagh	Bansibagh	27.736	29.716	—	South-westerly.	297.3	104.6	23th	70.8	20th	101.6	76.8	85.3	+1.9	84.6
			Lohardugga	Lohardugga	27.626	29.709	—	SW	177.6	104.3	23th	70.4	19th	100.7	73.9	87.3	+1.7	87.1
			Manikpore	Manikpore	27.626	29.709	—	SW	177.6	104.3	23th	70.4	19th	100.7	73.9	87.3	+1.7	87.1
			Singaboom	Chyabass	26.960	29.704	—	WSW	74.0	111.8	23th	70.3	21st	107.5	89.0	94.2	+3.1	88.9

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last year. The humidity of the atmosphere is expressed at percentage, saturated air being represented by 100. A clear sky is denoted by c and an overcast sky by lo. The numbers are the numerical means or average of the rain fall in that district determined from the returns sent in by the subdivisional stations for the period in question during the past year. The numbers in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 25th of April 1890.

DISTRICT OBSERVATIONS.															Representative station.	District.	MEMOROLOGICAL DIVISION.
Average humidity at 5 A.M.	Average cloud amount at 5 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.												
			Mean for district.	Normal mean.	Since 1st of month.			Since 15th May 1889.			Average number of rainy days.	Normal number of rainy days.					
					Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.							
50	12	Nil	0.01	0.25	0.00	0.58	-0.50	77.62	56.17	+19.45	0.2	0.6	Poorce	Poorce	Orissa.		
53	10	Nil											Gopalpore				
57	8.1	Nil											False Point				
60	0.3	Nil	0.25	0.41	0.31	0.31	-0.60	68.61	54.78	+13.83	0.3	0.7	Cuttack	Cuttack	Orissa.		
73	0	Nil	0.20	0.53	0.46	1.34	-0.88	53.39	60.95	-6.56	0.7	0.8	Balasore	Balasore			
82	6.7	0.02	0.01	0.70	0.91	1.25	-1.24	59.08	66.26	-6.18	0.3	0.9	Sausar Island	South-West Midnapore			
79	0.7	0.15	0.29	0.61	0.46	1.25	-0.78	47.90	55.42	-7.52	0.7	0.8	Midnapore	Midnapore	Orissa.		
70	3.9	0.96	0.32	0.40	0.33	1.21	-0.88	55.62	55.62	0	1.0	0.3	Calcutta	24-Pergunnahs			
78	3.7	1.22	1.34	0.56	1.90	1.44	+0.46	46.30	50.90	-4.60	2.3	1.0	Burdwan	Howrah			
68	3.1	1.61	0.98	0.45	0.86	0.80	-0.23	57.43	54.99	+2.44	1.5	0.9	Bankura	Hooghly	Orissa.		
70	4.6	0.60	0.35	0.47	1.14	0.97	+0.17	54.29	54.28	+0.01	1.3	1.0	Ranagunge	Bankura			
91	7.6	0.41	0.36	0.36	1.47	1.02	+0.45	53.96	53.23	-0.73	1.3	0.9	Berhampore	West Burdwan			
80	5.1	1.33	1.00	0.80	1.32	2.10	-0.78	53.54	54.08	-0.54	2.0	1.3	Krishnagar	Moorshedabad	Orissa.		
89	6.9	2.11	1.78	1.09	2.70	3.43	+0.37	57.06	58.07	-1.01	3.4	1.6	Jessore	Nuddea			
83	4.0	1.30	1.80	0.77	3.77	1.71	+2.06	100.67	118.27	-17.60	4.0	1.6	Chittagong	Jessore			
				0.79				57.83				1.6	Demagiri	Chittagong Hill Tracts	Orissa.		
86	5.6	2.31	3.00	1.05	4.00	2.23	+1.77	52.91	53.48	+0.57	3.0	1.7	Barrisal	Sackergunge			
84	2.6	4.83	4.90	1.18	5.86	3.08	+2.78	90.55	114.97	-24.42	4.5	2.0	Noakhelly	Noakhelly			
89	0.6	0.05	3.42	1.32	4.33	2.78	+1.55	67.39	62.41	+4.98	3.3	2.1	Furzedpore	Furzedpore	Orissa.		
85	0.6	1.66	2.44	1.61	3.50	3.45	+0.05	53.44	67.31	-13.87	3.0	2.3	Dacca	Dacca			
79	0.7	0.54	2.00	1.56	3.20	3.74	+0.54	63.94	78.90	-14.96	3.3	2.2	Comilla	Tipperah			
80	0.1	3.46	2.75	1.31	4.06	2.80	+1.26	96.33	78.19	+18.14	2.8	2.1	Mymensingh	Mymensingh	Orissa.		
83	0.6	1.15	1.03	0.77	2.07	1.31	+0.76	65.46	60.43	+5.03	2.0	1.6	Bogra	Bogra			
89	7.9	1.33	1.32	0.94	2.11	2.16	+0.05	60.49	58.06	+2.43	2.5	1.0	Serajung	Pubna			
89	5.1	0.84	0.50	0.43	2.20	0.93	+1.27	57.63	56.32	+1.31	1.0	1.0	Rampore	Rajshahi	Orissa.		
84	0.6	0.12	0.18	0.23	0.13	0.72	-0.59	40.06	36.06	+3.99	2.0	0.8	Maldah	Maldah			
83	7.9	1.06	0.42	0.50	0.80	0.78	+0.02	55.23	50.23	+5.00	1.4	1.2	Dinagore	Dinagore			
84	4.1	1.05	1.27	1.26	2.30	2.22	+0.08	55.24	77.94	-22.70	3.0	1.8	Rangpore	Rangpore	Orissa.		
85	3.0	3.82	2.90	1.82	0.52	2.15	+0.37	124.32	116.62	+7.70	4.8	2.8	Jalpigore	Jalpigore			
90	7.7	2.62	1.54	2.04	4.27	2.78	+0.49	137.90	127.90	+9.94	2.0	3.2	Darjeeling	Cooch Behar			
79	5.3	0.20	0.30	0.40	0.20	0.88	-0.68	78.94	60.51	+18.43	1.4	1.2	Purneah	Darjeeling Hill Tracts	Orissa.		
79	1.1	Nil	0.23	0.11	0.23	0.42	-0.19	49.16	44.83	+4.33	0.3	0.3	Mosufferpore	Purneah			
70	2.6	0.10	0.13	0.17	0.10	0.42	-0.32	32.36	43.34	-6.98	1.0	0.3	Durbhanga	North Bhagalpur			
66	2.1	Nil	Nil	0.12	Nil	0.48	-0.36	64.11	48.02	+16.09	0.0	0.4	Motihari	Mosufferpore	Orissa.		
61	0.7	Nil	0.09	0.05	0.02	0.14	-0.12	40.32	43.70	-3.37	0.3	0.3	Chupra	Durbhanga			
84	1.0	Nil	Nil	0.03	Nil	0.15	-0.13	40.49	41.06	-0.57	0.0	0.3	Dehree	Champaran			
82	1.7	Nil	Nil										Arrah	Sarun	Orissa.		
80		Nil	Nil	0.11	Nil	0.22	-0.25	37.34	42.67	-5.33	0.0	0.3	Gya	Shahabad			
86	1.9	Nil	Nil	0.06	0.03	0.17	-0.15	43.04	43.21	+1.15	0.0	0.3	Bankipore	Gya			
86	7.4	0.01	0.51	0.14	0.51	0.40	+0.11	43.04	44.41	-1.37	0.6	0.3	Bhagalpur	Patna	Orissa.		
80	3.3	1.12	0.66	0.21	0.75	0.56	+0.20	55.24	62.37	-7.13	1.3	0.8	Doomka	South Bhagalpur			
48	0	Nil	Nil	0.00	Nil	0.26	-0.23	43.64	52.07	-8.43	0.0	0.3	Hasaribagh	Monohyr			
56	0	Nil	Nil	0.04	Nil	0.22	-0.22	40.63	50.97	-4.34	0.0	0.3	Ranchi	South Bhagalpur	Orissa.		
		Nil	0.25	0.12	0.25	0.61	-0.36	30.52	40.34	-9.82	1.0	0.6		Lohardugga			
43	0.2	Nil	Nil	0.17	Nil	0.57	-0.67	40.84	44.30	-3.46	0.0	0.7	Chyabassa	Manbhum			

ten years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.
 denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
 17 years. The means of district are the numerical average of the rainfall return received in the district, &c., from total rainfall at the subdivisions

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 25TH OF APRIL 1890.

THE unsettled weather, which was noticed in the report of last week, has continued with very little interruption during the present week. Large and frequent changes have occurred in pressure and temperature, the wind circulation has been almost always cyclonic round a centre well to the west of the province, and thunderstorms with rain, though not very general, have been of daily occurrence.

On Saturday the 19th, the first day of the present week, there was a low-pressure area overlying part of the North-West Provinces and part of Chutia Nagpur. During the previous day a rapid rise of pressure occurred, but the depression remained, and influenced the wind directions in all parts of Bengal, giving south or south-east winds in Lower Bengal and east or north-east winds in North Bengal and Behar. Pressure differed very little from the normal, generally less than a twentieth of an inch above, and very slightly below the normal in Chutia Nagpur. Temperature was largely below the normal in East and North Bengal, and slightly above in Orissa and Behar. On the 19th, rain was general in South-West and North Bengal, and scattered showers fell in the other districts. On the following day pressure continued to rise slowly except in Behar, where the rise was brisk. The low-pressure area was more diffused, wind circulation less regular, but still cyclonic, the centre somewhere in South Behar. Temperature changes on the 20th were not important, and rainfall more scattered. On the 21st a rapid fall of pressure was general, and continued with greater or less rapidity till the end of the week. The depression in the North-West Provinces again intensified, and caused easterly winds over almost the whole of Bengal. The change of pressure in Chutia Nagpur and South Behar was very little under a tenth of an inch, and it gradually diminished towards the north-east, defect being about a twentieth of an inch everywhere except in North Behar and North Bengal. Temperature continued to be largely below the normal over the eastern half of the province, and rain was again less general, numerous showers falling only in the Cooch Behar and Julpigoree districts, and in the Sunderbuns and Chittagong. On the 22nd the fall of pressure continued, briskly in Behar and slowly elsewhere, and defect had now increased to a tenth of an inch in Chutia Nagpur, South-West Bengal, and Orissa. The depression was gradually extending in a south-easterly direction, but as it had the form of a trough extending from the head of the Bay over Chutia Nagpur and the North-Western Provinces, the southerly motion had very little influence on the wind circulation, which remained unchanged till almost the end of the week. Temperature remained low in East and North Bengal till the 23rd, and during the 22nd and 23rd heavy general rain fell in these two districts; but during the last two days of the week, temperature rose very rapidly over the whole of Bengal, and the large defect which had been present for the greater part of the week in East and North Bengal disappeared. On these two days there was a large defect in pressure, everywhere more than a tenth of an inch and in some places very little under two-tenths. On Friday westerly winds were general over South Behar and Chutia Nagpur, and then the lowest pressure was over the head of the Bay near False Point and Saugor Island. Very little rain fell on Thursday and Friday, only a few scattered showers in East and North Bengal.

Pressure—As stated above, has changed rather largely, and was about two-tenths of an inch below the normal at the end of the week. The means for the week are all considerably below the normal, the largest defect being a tenth of an inch at Balasore, and the lowest about a twentieth of an inch over the greater part of North Behar.

Temperature—Was about normal in the western half of the province and four or five degrees below the normal in East and North Bengal till the last two days of the week, when a rapid rise following the almost general stoppage of rain, a large, though somewhat irregular, excess prevailed. The means for the week are above the normal except in East and North Bengal. Excess in Chutia Nagpur, South Behar, and Orissa is over 1°, defect in North Bengal 3·4°, and in East Bengal 1·9°.

The actual temperatures during the week, the range from day to night, and their variations from the normals are seen in the following table; where the average maximum, minimum and mean temperatures at nine typical stations in different districts in the province are given together with their normal values:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 25th April 1890.

				Normal mean maximum temperature for the week ending 25th April.	Actual mean maximum temperature for the week ending 25th April 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 25th April.	Actual mean minimum temperature for the week ending 25th April 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 25th April.	Actual mean daily temperature for the week ending 25th April 1890.	Variation of actual mean from the normal.
Cuttack	...	...	...	101·8	108·0	+3·3	78·7	79·9	+1·3	90·3	92·4	+2·1
Calcutta	...	...	...	96·0	95·4	-0·4	76·3	77·5	+1·3	86·6	86·3	-0·3
Dacca	...	...	...	92·0	89·0	-3·0	74·6	73·0	-1·6	83·6	80·3	-3·3
Burdwan	...	...	...	100·1	100·1	0	76·4	77·9	+1·5	88·3	89·0	+0·7
Patna	...	...	...	101·9	100·9	-1·0	74·9	76·6	+0·7	84·4	85·3	+0·9
Gya	...	...	...	105·4	105·4	0	76·0	76·0	0	90·7	90·7	0
Furness	...	...	...	97·2	98·3	+1·1	72·0	73·0	+1·0	84·6	85·1	+0·5
Masariabagh	...	...	...	99·9	101·0	+1·1	73·7	75·6	+1·9	86·6	88·3	+1·7
Darjeeling	...	...	...	91·9	90·1	-1·8	66·6	66·3	-0·3	63·3	63·1	-0·2

Rainfall.—General, and in some cases heavy, rain fell in the northern half of North Bengal on every day except the last; in South-West Bengal on Saturday and Sunday, and in East Bengal on Monday, Tuesday and Wednesday; elsewhere scattered showers have been falling except in part of South Behar and Chutia Nagpur. In the former a few showers fell on the 19th and 20th in Monghyr, South Bhagulpore, and the Sonthal Pergunnahs, and in the latter only three showers are reported from Manbhoom. The mean rainfall for the week is above the normal in South-West, East and North Bengal and South Behar. The excess fall in East Bengal is 1·6 inches, in North and South-West Bengal 0·3 inch, and the defect in Orissa is 0·3 inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 25th of April 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages or week.				Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 16th May 1889.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average.		Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.	
Orissa	105·9	73·3	83·2	80·0	86·8	+1·1	0·17	0·44	-0·27	0·5	0·3	-0·3	0·26	1·09	64·78	66·08	
South-West Bengal ...	112·4	66·1	86·1	77·1	87·6	+0·3	0·91	0·89	+0·02	1·8	1·1	+0·7	1·37	1·47	54·73	55·03	
East Bengal	97·3	64·4	86·4	72·6	80·3	-1·9	2·36	1·26	+1·00	2·3	2·0	+1·3	0·86	2·67	83·28	80·68	
North Bengal	98·6	63·3	87·8	71·8	79·6	-3·4	1·30	0·36	+0·93	2·6	1·4	+1·1	2·68	1·69	76·76	73·36	
North Behar	103·3	67·3	86·4	74·3	83·4	+0·4	0·25	0·23	0	0·7	0·3	+0·3	0·27	0·23	68·27	68·12	
South Behar*	110·9	67·9	100·8	76·8	86·7	+1·2	0·26	0·11	+0·14	0·3	0·3	+0·3	0·30	0·23	44·74	42·00	
Chutia Nagpur	104·6	70·4	100·9	74·3	87·8	+1·3	0·64	0·11	-0·07	0·3	0·4	-0·3	0·34	0·25	44·74	41·45	

* Gyn and Chyebases not included.

METEOROLOGICAL OFFICE, BENGAL;

The 29th April 1890.

C. LITTLE,

Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 20th to 26th April 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.					HYGROMETRY.				Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
April 1890...	20th ...	29·644	87·9	94·0	16·2	79·8	91·6	81·5	·940	77·3	64	Inches.
"	21st ...	·751	85·9	95·0	18·2	76·8	91·1	80·9	·918	76·6	61	"
"	22nd ...	·704	84·5	95·0	21·0	74·0	88·6	82·5	1·030	80·1	77	0·60
"	23rd ...	·690	86·6	98·8	24·5	74·3	91·6	84·5	1·001	81·9	74	0·11
"	24th ...	·637	93·5	106·2	25·4	80·8	92·6	84·6	1·077	81·5	71	"
"	25th ...	·652	89·9	99·4	19·0	80·4	89·1	84·0	1·009	82·1	80	"
"	26th ...	·772	88·4	98·5	20·2	78·3	88·6	81·7	·990	78·9	73	0·04

The mean 10 A.M. pressure of the seven days Inches. 29·721

The mean temperature of the seven days 88·1

The extreme variation of temperature 32·2

The maximum temperature 106·2

The mean 10 A.M. relative humidity of the seven days % 71

The total fall of rain from 20th to 26th April 1890 Inches. 0·75

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 28th April 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 12th April 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 12th March 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 14.7 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 6.6 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years, with which comparison is instituted, vide the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Ratio of births per 1,000 of the population per annum	20.2	19.3	19.9	19.3	21.7	21.3	14.7

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	22nd March 1890.	29th March 1890.	5th April 1890.	12th April 1890.		22nd March 1890.	29th March 1890.	5th April 1890.	12th April 1890.
Bardwan	24.6	24.4	25.0	10.7	Narainganj	20.0	16.6	20.7	24.8
Midnapore	17.0	20.3	16.8	10.8	Chittagong	11.7	9.4	4.7	9.4
Hughli and Chinsurah	24.6	33.0	25.0	24.6	Comillah	20.5	23.1	20.1	...
Serampore	21.6	41.3	33.4	11.8	Patna	8.8	13.3	6.8	13.0
Utterpara	47.2	28.3	9.4	...	Gya	25.3	19.1	16.4	19.1
Howrah	21.2	20.5	16.6	14.3	Arrah	50.3	23.9	13.2	16.8
Ball	21.1	17.5	7.0	14.0	Mouafferpore	23.5	13.4	9.7	12.2
Kishnagar	11.4	24.0	9.5	19.9	Darbhanga	25.2	18.1	18.1	22.0
Ranaghat	43.0	...	18.0	29.9	Chupra	23.1	14.1	13.1	2.0
Santipore	35.0	29.8	14.0	17.6	Bhagulpore	16.3	13.6	10.9	14.3
Jessore	30.6	18.4	12.2	18.4	Monohyr	30.7	26.2	20.8	17.2
Rampore Beaulah	31.5	21.0	20.3	23.6	Purneah	3.5	27.7	13.9	17.4
Darjiling	37.0	14.8	14.8	14.8	Poori	33.0	29.4	12.6	10.8
Dacca	23.4	20.5	8.4	14.9					

It will be seen that last week the highest birth-rate was returned from Ranaghat (29.9) and the lowest from Chupra (2.0). No births were registered during the week in Utterpara and Comillah towns.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 27.1 per 1,000 of the population. The rate of the week is 1. higher than the average rate of the corresponding week of the past five years, and also higher than the rate of the corresponding week of any of the past five years except 1885, — vide the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	
Ratio of deaths per 1,000 of the population per annum	33.4	24.3	25.7	25.5	21.7	20.1	27.1

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	22nd March 1890.	29th March 1890.	5th April 1890.	12th April 1890.		22nd March 1890.	29th March 1890.	5th April 1890.	12th April 1890.
Bardwan	22.0	24.4	27.3	33.0	Narainganj	4.1	8.3	8.3	41.6
Midnapore	40.0	38.7	13.4	34.1	Chittagong	11.7	7.0	4.7	9.4
Hughli and Chinsurah	33.0	37.7	32.8	20.7	Comillah	40.4	46.2	27.0	19.3
Serampore	47.1	17.7	37.3	31.4	Patna	13.3	17.5	11.4	23.9
Utterpara	47.2	28.3	20.5	28.3	Gya	41.0	66.4	79.2	61.5
Howrah	21.2	14.3	22.0	21.8	Arrah	14.4	16.7	9.8	13.0
Ball	24.6	24.6	31.6	34.0	Mouafferpore	4.9	17.0	13.4	12.2
Kishnagar	11.4	5.7	7.0	17.0	Darbhanga	12.7	23.2	17.3	18.1
Ranaghat	29.9	24.0	6.0	13.0	Chupra	14.1	11.1	13.1	2.0
Santipore	16.0	8.8	10.5	8.7	Bhagulpore	18.1	19.9	8.1	20.5
Jessore	61.2	12.2	18.4	31.4	Monohyr	14.0	9.9	23.5	20.9
Rampore Beaulah	26.3	21.0	34.3	30.4	Purneah	22.7	34.6	17.3	31.2
Darjiling	37.0	41.8	29.0	74.1	Poori	48.3	30.9	29.9	68.7
Dacca	18.2	28.7	13.0	23.1					

It will be seen that last week the highest mortality occurred in the town of Darjiling (74.1) and the lowest in Chupra (2.0).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

Cholera.		Small-pox.		Fever.		Other causes.	
	Ratio per mille.		Ratio per mille.		Ratio per mille.		Ratio per mille.
Hughli and Chinsurah ...	24.6	Poori ...	8.4	Darjiling ...	59.3	Serampore ...	17.6
Howrah ...	9.2	Howrah ...	2.8	Gya ...	59.3	Midnapore ...	15.5
Dacca ...	4.5			Rampore Beaulah ...	31.5	Poori ...	14.7
Patna City ...	4.5			Purneah ...	27.7	Kishnagar ...	11.3
				Poori ...	25.1		
				Monghyr ...	24.4		
				Burdwan ...	21.4		

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 3.2 from cholera, against 1.7 per 1,000 in the preceding week; 1. from small-pox, against .6; 14.7 from fever, against 12.1; 2.2 from bowel-complaints, against 1.9; .2 from injury, against .3; and 5.8 from other causes, against 5.2 in the preceding week.

The mortality of last week according to Sex, Class and Age was as follows:—

According to Sex.		According to Class.		According to Age.	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males ...	28.6	Christians ...	7.5	Under 1 year	159.8
Females ...	25.6	Hindus ...	28.0	1 and under 5 years	32.5
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	111	Mahomedans ...	24.5	5 .. 10 ..	11.3
				10 .. 15 ..	12.4
				15 .. 20 ..	12.2
				20 .. 30 ..	17.2
				30 .. 40 ..	17.4
				40 .. 50 ..	22.8
				50 .. 60 ..	31.5
				60 years and upwards	91.8

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GRACE, Dip. Publ. Health, Camb.,

The 28th April 1890.

Sanitary Commissioner for Bengal.

DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.			MORTALITY ACCORDING TO—												Sex.																																																																																																																																																																																							
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Ratio of male deaths to every 100 female deaths.	

DISTRICTS.		NAMES OF MUNICIPALITIES.		MORTALITY ACCORDING TO—										Age.										Ratio per 1,000 of Population per Annum.									
				Class.										Deaths.										Ratio per 1,000 of Population per Annum.									
				Deaths more—										Under 1 year.										Under 1 year.									
				Christians.	Hindus.	Buddhists.	Other classes.	Christians.	Hindus.	Buddhists.	Other classes.	Under 1 year.	1 and under 1 year.	5 and under 5 years.	10 and under 10 years.	15 and under 15 years.	20 and under 20 years.	25 and under 25 years.	30 and under 30 years.	35 and under 35 years.	40 and under 40 years.	45 and under 45 years.	50 and under 50 years.	55 and under 55 years.	60 years and up-wards.								
Burdwan	Burdwan	13	6	...	...	...	...	...	...	...	1	2	3	3	1	3	3	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Midnapore	Midnapore	16	6	...	...	...	...	...	...	...	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Murshidabad	Murshidabad	27	19	...	...	...	...	...	...	...	4	7	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Barrackpore	Barrackpore	16	3	...	...	...	...	...	...	...	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Howrah	Howrah	27	11	...	...	...	...	...	...	...	4	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Haldia	Haldia	7	...	...	...	...	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Kolkata	Kolkata	8	3	...	...	...	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Calcutta	Calcutta	3	2	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Barisal	Barisal	1	1	...	...	...	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dacca	Dacca	1	1	...	...	...	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Chittagong	Chittagong	1	1	...	...	...	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Tripura	Tripura	1	1	...	...	...	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Patna	Patna	1	1	...	...	...	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Gya	Gya	1	1	...	...	...	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Shahabad	Shahabad	1	1	...	...	...	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Meerut	Meerut	1	1	...	...	...	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Delhara	Delhara	1	1	...	...	...	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Chupra	Chupra	1	1	...	...	...	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Bhagalpur	Bhagalpur	1	1	...	...	...	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Monohar	Monohar	1	1	...	...	...	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Purnea	Purnea	1	1	...	...	...	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Poor	Poor	1	1	...	...	...	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total	Total	1	416	136	...	...	73	253	...	...	76	16	34	23	19	72	62	56	47	116	1273	2376	113	156	177	170	326	315	315	315	315	

W. H. GREGG, Dep. Publ. Health, Camb.

OFFICE OF SANITARY COMMISSIONER FOR BENGAL.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 26th April 1890,
as compared with the corresponding week of the previous year.

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 26TH APRIL 1890.			WEEK ENDING SATURDAY, THE 27TH APRIL 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	224	44,870	620	234	68,965	942
Jute	14	14,600	121	19	9,050	133
Firewood	72	34,660	515	121	87,410	1,013
Other articles	612	1,58,725	2,371	641	2,51,425	2,763
Total	922	2,52,345	3,627	1,015	4,11,840	4,874

Nalhati State Railway.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State
Railway during the month of March 1890, as compared with the same month of the previous year.

STAPLES.	1889		1890		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1890.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.		
Coal	349	682	349	682	349	682		
Cotton, raw	7				7			7
Cotton piece-goods—								
1.—European	23	35			23	35	2	
Grains—								
1.—Wheat	10	12	10	12	10	12		12
2.—Rice	24	45	24	45	24	45		25
3.—Gram	15	4	15	4	15	4		
4.—Others								
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed				3		3	3	
2.—Skins of sheep, goats and small animals—								
a.—Dressed		1		1		1		
Jute—								
1.—Raw	9	15	9	119	9	119	119	
2.—Gunny bags and cloths	8	1	8	1	8	1		8
Leather, manufactured								
Liquors—								
1.—Beer	1		1		1			1
2.—Wines								
Metals—								
2.—Iron	6	4	6	6	6	6		2
4.—Others	3	1	3	5	3	12	9	
Gum—								
1.—Castor	1		1		1			1
2.—Kerosine	1		1		1			1
3.—Others	6		6		6			9
Oilseeds—								
1.—Lined	3	40	3	94	3	96	46	
2.—Mustard and rape	122	30	122	122	122	30		92
3.—Others	8		8		8			8
Provisions—								
1.—Ghee	3		3		3			3
2.—Dried fruits and nuts	4		4		4			27
3.—Others	37		37		37			5
Paper and paste-board	5		5		5			33
Railway plant and rolling-stock	55	12	55	19	55	61	33	
Salt	23		23		23			
Silk, raw—								
1.—Indian	17	20	17	20	17	20		7
Silk piece-goods—								
1.—Indian		8		5		5		
2.—Others								
Spices—								
2.—Others	27	23	27	7	27	23	7	5
Stone and lime								
Sugar—								
1.—Dried	32	35	32	33	32	35	3	
2.—Undried	1	40	1	1	1	40	39	
Tobacco	16	12	16	12	16	12		6
Timber								
Wool—								
1.—Raw	1		1		1			1
All other articles of merchandise	25	32	25	34	25	34		
Total	260	304	260	327	260	327	1,274	234

INCREASE.						Tons.
Coal	...	...	...	...	...	293
This is attributable to decrease during last month.						
Grains—						
(2) Rice	...	...	...	...	...	409
This is due to greater export owing to high rate at Calcutta.						
(4) Others	...	...	...	...	...	40
This is due to import of indigo and huara seeds.						
Oil-seeds—						
(1) Linseed	...	...	...	...	...	46
This is attributable to high rate at Calcutta.						
Jute—						
(1) Raw	...	...	...	...	...	119
This is due to there being no traffic under this head last year.						
Salt	...	...	...	...	...	33
This is due to sudden increased demand at Murshidabad.						
Sugar—						
(2) Undrained	...	...	...	...	...	48
This is imported owing to greater demand at Murshidabad.						
DECREASE.						
Grains—						
(1) Wheat	...	...	...	...	...	12
No demand owing to dull market.						
(3) Gram	...	...	...	...	...	28
No demand owing to dull market.						
Oil-seeds—						
(2) Mustard and rape	...	...	...	...	...	92
This is due to there being no local demand.						
Provisions—						
(4) Others	...	...	...	...	...	27
Potatoes being imported by boat.						
Railway plant and rolling-stock	...	...	...	...	...	33
Owing to less materials carried during the month.						

R. G. MOOKERJEE,
Manager, Nalhati State Railway.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 19th April 1899, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	262,517	3,02,344 10 0	24,99,121 10	6,06,095 10 0	30,750 7 4	9,29,061 11 0	65,561	101,510	167,071
Or per mile of railway ...	...	198 3 1	...	396 14 4	13 4 3	604 5 10	...	...	...
For previous 15 weeks of half-year ...	3,654,925	43,49,239 8 0	3,65,99,167 30	9,53,299 1 0	2,97,199 0 9	1,39,36,999 2 9	975,990	1,653,431	2,629,421
Total for 16 weeks ...	4,116,742	46,51,584 2 0	4,20,98,288 0	97,57,793 11 0	3,17,838 0 9	1,47,09,737 13 9	1,041,941	1,554,960	2,596,901
COMPARISON.									
Total for corresponding week of previous year ...	242,963	2,96,901 9 10	29,51,772 0	6,29,814 14 6	29,101 14 3	9,40,418 6 6	65,000	90,400	155,400
Per mile of railway corresponding week of previous year ...	...	194 5 10	...	412 2 2	13 2 10	619 11 11	...	...	...
Total to corresponding date of previous year ...	4,544,020	48,99,400 2 9	4,44,55,509 19	99,53,086 7 6	2,57,656 12 1	1,48,40,400 6 6	1,089,985	1,540,938	2,630,923

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 20TH APRIL 1899.			RECEIPTS FOR WEEK ENDING 19TH APRIL 1899.			TOTAL RECEIPTS FROM 1ST APRIL 1899 TO 20TH APRIL 1899.			TOTAL RECEIPTS FROM 1ST APRIL 1899 TO 19TH APRIL 1899.			Total increase in 1899.	Total decrease in 1899.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	Rs.
1,525½	9,45,416	620	1,525½	9,29,061	609	1,525½	17,14,477	605	1,525½	25,99,170	604	...	1,16,446

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 19th April 1890, on 57½ miles open

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	16,090	7,021 1 0	80,817 3½	3,736 7 0	48 4 0	10,706 13 0	1,490	914	2,304
Or per mile of railway ...	291½	122 13 0	1400 0	65 4 7	0 12 1	188 12 8	.....	.....	.....
For previous 15 weeks of half-year ...	198,478	1,08,797 14 0	7,24,737 3½	44,005 15 0	574 3 0	1,48,878 0 0	26,320½	10,231	36,551½
Total for 16 weeks ...	215,130	1,10,618 15 0	7,75,593 30	48,040 6 0	617 7 0	1,59,676 13 0	27,809½	11,145	38,954½
COMPARISON.									
Total for corresponding week of previous year ...	13,613	6,099 12 0	46,627 3½	3,304 11 0	46 15 6	9,453 6 6	1,613	923	2,506
Per mile of railway corresponding week of previous year ...	234½	106 10 3	748 10	57 13 8	0 13 8	165 4 6	.....	.....	.....
Total to corresponding date of previous year ...	345,641½	1,80,723 3 7	6,22,921 0	37,539 8 0	1,353 15 9	1,68,616 10 4	29,110	10,698	39,798

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 19TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 19TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 19TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 19TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	9,453	165	57½	10,799	189	57½	31,022	181	57½	31,017	181	23	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 19th April 1890, on 23½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	25,036	8,874 12 0	13,207 10	406 13 6	9 6 0	9,283 1 0	1,094	316	1,503
Or per mile of railway ...	.....	328 13 10	.....	18 9 4	0 4 9	417 6 11	.....	.....	.....
For previous 15 weeks of half-year ...	329,774	67,604 8 0	2,20,976 20	7,480 13 0	157 13 0	68,533 1 0	13,094	1,448	14,542
Total for 16 weeks ...	355,610	90,702 4 0	2,34,083 30	7,881 11 0	167 3 0	1,04,814 2 0	14,188	1,663	15,847
COMPARISON.									
Total for corresponding week of previous year ...	23,463	6,214 7 1	7,645 10	298 13 6	9 12 0	6,523 0 1	937	33	960
Per mile of railway corresponding week of previous year ...	.....	279 4 10	.....	13 6 10	0 7 0	283 2 8	.....	.....	.....
Total to corresponding date of previous year ...	579,157½	1,00,012 10 2	1,51,614 30	5,460 3 0	113 4 0	1,00,180 1 2	14,789	985	15,774

Approximate Statement of gross receipts of the Tarkeessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 19TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 19TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 19TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 19TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
23½	6,523	283	23½	6,520	417	23½	27,021	376	23½	27,535	323	.....	1,461

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 12th April 1890, on 747 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	151,070	77,940 0 0	6,32,170 0	86,840 0 0	14,000 0 0	1,78,870 0 0	22,987	20,633	43,620
Or per mile of railway...	202	104 0 0	846 0	116 0 0	18 0 0	238 0 0	...	...	...
For previous 14 weeks of half-year...	2,222,000	11,04,863 0 0	79,94,750 0	15,07,853 0 0	2,67,916 0 0	*22,80,832 0 0	313,487	413,776	727,263
Total for 15 weeks...	2,403,130	11,82,803 0 0	86,30,920 0	15,94,696 0 0	2,82,906 0 0	30,64,668 0 0	336,474	443,309	779,783
COMPARISON.									
Total for corresponding week of previous year...	134,480	62,600 0 0	4,52,735 0	66,703 0 0	12,003 0 0	1,40,900 0 0	21,607	22,906	44,513
Per mile of railway corresponding period of previous year...	200	84 0 0	677 0	90 0 0	17 0 0	190 0 0	...	...	...
Total to corresponding date of previous year...	2,240,538	11,62,344 0 0	74,16,080 0	12,63,410 0 0	2,65,616 0 0	26,91,819 0 0	328,421	386,790	715,211

* Audited up to week ending 6th February 1890.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 12TH APRIL 1890.			RECEIPTS FOR WEEK ENDING 12TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 12TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 12TH APRIL 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	1,40,900	209	747	1,78,870	239	673	2,89,341	213	747	3,02,446	282	16,157	...

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 12th April 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	27,440	8,730 0 0	20,640 0	3,530 0 0	40 0 0	12,400 0 0	2,735	1,087	3,822
Or per mile of railway...	219	70 0 0	166 0	28 0 0	...	101 0 0	...	...	...
For previous 14 weeks of half-year...	390,800	1,22,618 0 0	6,54,190 0	43,374 0 0	770 0 0	*1,22,102 0 0	20,697	22,610	43,307
Total for 15 weeks...	417,240	1,40,748 0 0	7,16,730 0	47,704 0 0	810 0 0	1,23,762 0 0	24,432	23,400	47,832
COMPARISON.									
Total for corresponding week of previous year...	28,081	7,944 0 0	44,230 0	2,967 0 0	73 0 0	10,984 0 0	2,735	1,087	3,822
Per mile of railway corresponding period of previous year...	194	64 0 0	354 0	24 0 0	1 0 0	88 0 0	...	...	...
Total to corresponding date of previous year...	431,716	1,51,619 0 0	648,823 0	45,390 0 0	4,406 0 0	2,01,865 0 0	25,012	23,401	48,413

* Audited up to week ending 6th February 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 12TH APRIL 1890.			RECEIPTS FOR WEEK ENDING 12TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 12TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 12TH APRIL 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	10,294	82	125	12,400	101	125	21,694	94	125	22,494	80	...	1,130

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 12th April 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	15,179	5,400 0 0	23,710 0	1,710 0 0	300 0 0	7,380 0 0	2,400	621	3,024
Or per mile of railway ...	176	64 0 0	276 0	20 0 0	4 0 0	88 0 0			
For previous 14 weeks of half-year ...	244,250	80,403 0 0	8,75,380 0	24,749 0 0	2,447 0 0	1,28,664 0 0	33,638	10,238	43,876
Total for 15 weeks ...	259,429	85,803 0 0	8,99,090 0	26,459 0 0	2,827 0 0	1,39,244 0 0	36,076	10,469	46,545
COMPARISON.									
Total for corresponding period of previous year ...	22,894	8,302 0 0	8,613 0	445 0 0	50 0 0	8,917 0 0	2,537	540	3,077
Per mile of railway corresponding period of previous year ...	260	64 0 0	65 0	5 0 0	1 0 0	70 0 0			
Total to corresponding date of previous year ...	242,204	77,521 0 0	1,77,375 0	15,012 0 0	2,439 0 0	91,782 0 0	36,610	10,691	47,301

Audited up to week ending 8th February 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 13TH APRIL 1890.			RECEIPTS FOR WEEK ENDING 15TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 13TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH APRIL 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	6,017	70	86	7,880	68	86	11,125	65	86	13,640	59	2,555	.....

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 19th April 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,163	1,181 0 0	9,835 0	647 0 0	10 0 0	1,838 0 0	569	254	763
Or per mile of railway ...	116	43 0 0	360 0	23 0 0	1 0 0	67 0 0			
For previous 14 weeks of half-year ...	48,931	17,456 0 0	2,05,892 0	12,409 0 0	1,393 0 0	31,240 0 0	7,417	7,103	14,520
Total for 15 weeks ...	52,094	18,637 0 0	2,15,727 0	13,056 0 0	1,403 0 0	32,643 0 0	7,986	7,357	15,343
COMPARISON.									
Total for corresponding week of previous year ...	2,908	1,451 0 0	8,417 0	397 0 0	15 0 0	1,863 0 0	569	254	763
Per mile of railway corresponding week of previous year ...	169	43 0 0	190 0	14 0 0	1 0 0	67 0 0			
Total to corresponding date of previous year ...	54,143	20,548 0 0	1,88,448 0	11,106 0 0	1,415 0 0	33,160 0 0	7,995	7,563	15,558

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 20TH APRIL 1890.			RECEIPTS FOR WEEK ENDING 19TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 20TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 19TH APRIL 1890.			Total increase in 1889-91.	Total decrease in 1889-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	1,603	67	27½	1,839	67	27½	4,929	99	27½	4,767	88	.....	162

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 19th April 1890, on 273 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	42,910	19,797 0 0	2,32,467 0	27,394 0 0	2,915 0 0	40,990 0 0	9,423	7,448	12,865
Or per mile of railway ...	176	73 0 0	851 0	100 0 0	10 0 0	176 0 0	...	...	...
For previous 14 weeks of half-year ...	706,793	2,91,197 0 0	32,04,216 0	4,42,397 0 0	68,237 0 0	7,01,291 0 0	76,741	143,830	220,577
Total for 15 weeks ...	753,903	3,11,944 0 0	41,36,683 0	4,70,501 0 0	68,735 0 0	8,21,300 0 0	82,165	151,278	233,443
COMPARISON.									
Total for corresponding week of previous year ...	48,993	18,234 0 0	1,56,169 0	14,971 0 0	3,294 0 0	26,590 0 0	6,993	5,493	12,486
Per mile of railway corresponding week of previous year ...	179	67 0 0	573 0	51 0 0	1 0 0	119 0 0	...	...	...
Total to corresponding date of previous year ...	690,153	2,80,295 0 0	31,82,085 0	3,60,245 0 0	52,448 0 0	4,21,079 0 0	66,690	95,500	172,730

* Steam-haul earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 20TH APRIL 1890.			RECEIPTS FOR WEEK ENDING 19TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 20TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 19TH APRIL 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	36,500	130	273	40,900	150	273	1,00,700	123	273	1,36,948	187	24,248	...

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 29th March 1890	...	...	10,781
Corresponding period of 1889	...	...	12,583
Decrease	...	...	1,802
Receipts per mile for week ending 29th March 1890	...	...	Rs. A. P. 211 6 3
Corresponding period of 1889	...	...	246 11 9
Decrease	...	...	35 5 6
Receipts from 1st January to 29th March 1890	...	...	1,08,448
Corresponding period of 1889	...	...	1,08,790
Decrease	...	...	342

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 5th April 1890	...	...	11,495
Corresponding period of 1889	...	...	9,487
Increase	...	...	2,008
Receipts per mile for week ending 5th April 1890	...	...	Rs. A. P. 225 6 3
Corresponding period of 1889	...	...	186 0 3
Increase	...	...	39 6 0
Receipts from 1st January to 5th April 1890	...	...	1,18,343
Corresponding period of 1889	...	...	1,18,377
Increase	...	...	34



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, MAY 7, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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RULES FOR CONTROLLING THE TRANSPORT OF EMIGRANTS TO THE LABOUR DISTRICTS OF ASSAM.

GENERAL DEPARTMENT.

Calcutta, the 17th April, 1890.

RESOLUTION.

THE rules sanctioned last year under Bengal Act I of 1869 provide for the inspection of places of accommodation for emigrants in the mofussil, but no reference is made in them to the buildings maintained for that purpose in Calcutta. In practice, these have been considered as subject to inspection by the Superintendent of Emigration, and it seems to the Lieutenant-Governor to be advisable to recognize this arrangement by rule.

2. The importance of regulating the railway journey was recognized from the first, and great improvements have been introduced with the consent of the railway authorities. It is now considered expedient to give to these arrangements the force of rules, particularly as that course has been adopted with regard to emigrants registered under Act I of 1882. Where the precautions it is now proposed to adopt are more detailed, it has been deemed advisable, for the sake of conformity, to amend also the rules under Act I of 1882.

3. The Lieutenant-Governor accordingly proposes to issue the following rules, any objections to which will be considered on the 28th May next:—

Rules to be issued in addition to the existing rules under Act I (B.C.) of 1889.

18. The daily despatch of emigrants by train shall be previously arranged for by the forwarding agent with the railway authorities concerned, so as to prevent overcrowding by the securing of sufficient carriage accommodation for the whole number of emigrants intending to travel.

19. The agent shall provide for emigrants started on a railway journey after 9 A.M. a cooked meal, and for those started at or before that hour a dry meal instead, consisting of bread or biscuit and sugar in the proportion of one pound of bread or two large biscuits and one ounce of sugar to each emigrant of and above ten years of age, and half the above quantities to each emigrant under the age of ten years. Also, if the journey between two halting stations is likely to occupy more than six hours, bread or biscuit and sugar in the same proportions shall be given by the agent for distribution to the emigrants for consumption during the journey.

20. When a medical officer has been appointed by Government to examine emigrants, no emigrants shall be put into the train without being inspected and passed as fit to undertake the journey by such officer. The medical officer will report any breach of rule 19 which may come to his notice.

21. When despatching emigrants by train, the purest drinking water obtainable shall be supplied by the agent in a sufficient number of suitable vessels conveniently placed with the emigrants in the carriages. Emigrants shall be afforded opportunities for leaving their carriages at three selected watering-stations between Sara and Parbutipur, one-third of the carriages at a time being emptied to admit of the station latrines being used and of additional supplies of drinking-water being obtained.

22. Emigrants about to travel by train shall be accommodated in third class carriages specially reserved for them, or in suitably constructed goods wagons attached to passenger trains only, and the number in each such carriage or goods wagon shall in no case exceed the regulation number.

23. The train journey of emigrants under conveyance from recruiting districts direct to Dhubri or to Goalundo shall be performed by the Hooghly-Naihati route.

24. If cholera occurs on the journey by train, the patient shall as soon as possible be removed, by and at the expense of the railway authorities, to the nearest cholera hospital or other suitable place for medical treatment; and particulars of the case, furnishing name of emigrant, batch to which belonging, and depot from which originally despatched, shall be forwarded by the station-master to the officers concerned.

5A. It shall be the duty of the Superintendent of Inland Emigration to inspect places of accommodation provided for emigrants in Calcutta.

Rules to be substituted for the existing Rules 64, 65 and 69 under the Inland Emigration Act, I of 1882.

64. The daily despatch of emigrants shall be previously arranged for by the contractor or forwarding agent with the railway authorities concerned, so as to prevent overcrowding by the securing of sufficient carriage accommodation for the whole number of emigrants intending to travel.

65. The contractors or garden sardar shall provide for emigrants started on a railway journey after 9 A.M. a cooked meal, and for those started at or before that hour a dry meal instead, consisting of bread or biscuit and sugar in the proportion of one pound of bread or two large biscuits and one ounce of sugar to each emigrant of and above ten years of age, and half the above quantities to each emigrant under the age of ten years. Also, if the journey between two halting stations is likely to occupy more than six hours, bread or biscuit and sugar in the same proportions shall be given by the contractor or garden sardar for distribution to the emigrants for consumption during the journey.

69. When a medical officer has been appointed by Government to examine emigrants, no emigrants shall be put into the train without being inspected and passed as fit to undertake the journey by such officer.

When despatching emigrants by train, the purest drinking-water obtainable shall be supplied by contractors or forwarding agents in a sufficient number of suitable vessels conveniently placed with the emigrants in the carriages. In the absence of latrine arrangements, emigrants shall be afforded opportunities for leaving their carriages at three selected watering-stations between Sara and Parbutipur, one-third of the carriages at a time being emptied to admit of the station latrines being used and of additional supplies of drinking-water being obtained.

Rules to be issued in addition to the existing rules under Act I of 1882.

Emigrants about to travel by train shall be accommodated in third class carriages that are specially reserved for them, or in suitably constructed goods wagons attached to passenger trains only, and the number in each such carriage or goods wagon shall in no case exceed the regulation number.

The train journey of emigrants under conveyance from recruiting districts direct to Dhubri or to Goalundo shall be performed by the Hooghly-Naihati route.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

OUTTURN OF RABI AND SPECIAL CROPS IN BENGAL FOR THE YEAR 1889-90.

The following papers are published for general information.

By order of the Lieutenant-Governor of Bengal,

REVENUE DEPARTMENT,
AGRICULTURE;
CALCUTTA,
The 6th May, 1890.

P. NOLAN,
Secretary to the Government of Bengal.

Outturn of rabi and special crops in Bengal for the year 1889-90.

THE present season has been unfavourable to the *rabi* crops in some respects. The excessive rain which fell in the middle of November last destroyed the seed of *rabi* crops, which had been recently sown, and made it necessary in many places to have the lands sown over again. The injury from this cause extended over the whole of Orissa and Bengal Proper, except the districts of Dinagepore, Julpigoree, and Darjeeling in North Bengal. It is estimated that in Orissa and Bengal, taken together, fully one-third of the *rabi* crop was lost on account of the excessive rain in November. Deficiency of rain during the time of preparing and sowing *rabi* lands was, on the other hand, felt in several districts of the Patna Division and in Dinagepore, while the absence of rain in December, January, and February reduced the outturn more or less in all districts of the Patna, Bhagulpore, and Chota Nagpore Divisions. But for the latter cause, a full average crop could have been reaped in these divisions. Taking the whole of Bengal, the outturn of the *rabi* crops of the present season may be estimated at 13 annas.

2. Statement IV annexed to this note shows the estimated outturn of the more important special crops, such as sugarcane, tobacco, poppy, indigo, mulberry, jute, &c.

Sugarcane suffered more or less from deficiency of rain in all districts of the Burdwan Division, except Beerbhoom in Nuddea, Dinagepore and Julpigoree in Bhagulpore, and the Southal Pergunnahs, and probably also in Patna, Shahabad, Lohardugga, and Manbhoom. Injury from floods is reported from Dacca and parts of Nuddea, Jessore, and Moorshedabad. In the districts of the Orissa Division, and in Midnapore and parts of Hooghly, this crop was largely damaged by excessive rain in November. An average crop was reaped in the districts of the Patna Division, except in parts of Patna and Shahabad.

The tobacco crop was below the average in Rajshahye and Dinagepore, but is estimated to have yielded a 12 to 16 annas crop in the important tobacco-growing districts of Rungpore, Bogra, and Julpigoree. In the Mynagore tehsil of the Julpigoree district the crop is reported to have been very seriously damaged by hailstones.

3. Poppy was injured to some extent by deficiency of rain during the cold weather in Patna, Shahabad, Mozufferpore, and Bhagulpore. In Gya, Durbhunga, Sarun, Ohumparun, and Monghyr it yielded a nearly full crop.

Mulberry did fairly well in Moorshedabad and Midnapore, but in Rajshahye, Bogra, Nuddea, and Beerbhoom the yield is estimated to be about three-fourths of an average crop.

M. FINUCANE,

Director of the Dept. of Land Records and Agriculture, Bengal.

The 15th April 1890.

STATEMENT III.—Estimated Outturn of Rubbee Crops for the year 1889-90.

1	2	3	4	5	6	7	8	9	10
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubbee crops in square miles.	Names of principal rubbee crops of sub-division.	Estimated outturn expressed in annas of current year's rubbee crops.	Estimated outturn of previous year's rubbee crops.	Remarks by the Collector.	Remarks by the Director of Agriculture.
BURDWAN DIVISION.									
Burdwan	Udder	1,948	993	5730	Peas Kala Kheari Ginger Linseed Barley Onion Oats Potato Mustard Wheat Wheat Linseed Pulses Potatoes Pulses Oilseeds Wheat Gram Peas Kheari Barley Mustard Til Linseed Arhar Wheat	12 annas	11 annas	Pulses were injured by the last November rain.	The November rain affected all rubbee crops more or less. Potato was specially injured by it.
	Calna	462	380	253	Wheat Linseed Pulses Potatoes Pulses Oilseeds	12 "	10 "	Ditto ditto.	
	Cutwa	383	328	14	Wheat Gram Peas Kheari Barley Mustard Til Linseed Arhar Wheat	14 "	10 "	Ditto ditto.	The rainfall in November was also excessive in Ranagunge, but the high and undulating nature of the ground prevented injury.
	Ranagunge	672	293	343	Wheat Gram Peas Kheari Barley Mustard Til Linseed Arhar Wheat	14 to 16 annas.	14 to 16 annas.		
	District Total	2,607	2,004	15530					
Bankura	Sudder	1,081	670	11	Wheat Barley Pulses (mustar, musoor, &c.) Mustard Surguja, &c. Totton (large)	9 annas	8 annas	Excessive rainfall in last November affected the rubbee crops of this season, whereas deficiency of rain was the cause of the poor outturn of the previous year's crops.	In Burdwan better crops are expected than in Bankura, although the rainfall was equally excessive in both districts. The comparatively low outturn may be partly attributed to want of rain during December, January and February.
	Shikarpore	700	300	30	Wheat Barley Pulses Mustard	12 "	10 "	The excessive rain of last November injured the rubbee crops then standing, viz., mustard and pulses; consequently the lands occupied by these crops were re-sown with wheat. The outturn per acre on area sown also was affected by the November rain.	
	District Total	2,021	1,000	80					
	Boori (Sudder)	1,106	777	18	Wheat Gram Mustard Pulses Linseed	12 annas	12 annas	Wheat was injured by rain which fell between 14th and 21st November.	The rubbee crops appear to have been also injured by the continued drought which followed the excessive rain.
	Rampura-Hat	442	442	4	Wheat Gram Mustard Arhar Pulses	12 "	8 "	Wheat was injured by rain which fell between 14th and 21st November. Gram and mustard suffered from the November rain.	
	District Total	1,754	1,234	94					
Midnapore	Sudder	2,238	1,767	637	Moong Biri Linseed Gram Musoor Mustard Kala (moong, kheari, malar, &c.) Oilseeds (oil, mustard, &c.) Pulses Mustard Biri Kheari Peas Linseed Surguja Brinjal and other vegetables.	9 annas	11 annas	The rubbee crops suffered a good deal from the excessive rain of November last.	
	Contal	281	719	47	Oilseeds (oil, mustard, &c.) Pulses Mustard Biri Kheari Peas Linseed Surguja Brinjal and other vegetables.	8 "	8 "	Ditto ditto.	
	Chattal	304	288	15	Oilseeds (oil, mustard, &c.) Pulses Mustard Biri Kheari Peas Linseed Surguja Brinjal and other vegetables.	7 "	8 "	Ditto ditto.	
	Tamluk	280	445	56125	Oilseeds (oil, mustard, &c.) Pulses Mustard Biri Kheari Peas Linseed Surguja Brinjal and other vegetables.	10 "	16 "	Ditto ditto.	
	District Total	2,119	2,170	707125					
Hooghly	Sudder	642	57625	174	Masuri Pease Kala	10 annas	13 annas	The outturn was below the average owing to the scarcity of rainfall at the time of sowing.	The Collector's remark as to scarcity of rainfall at sowing time in the Sudder and Burampore subdivisions is not borne out by the rainfall records. There appears to have been as good rainfall there as in Howrah and Jehanabad subdivisions.
	Burampore	248	280	154	Potato Pulses Mustard Barley	14 "	15 "	The rainfall was not sufficient at first, and the heavy rain that fell afterwards affected the outturn of the rubbee crops more or less.	
	Jehanabad	406	282	30	Masuri Pease Kala Kheari Musoor Peas Mustard	14 "	15 "	The loss of 2 annas in the outturn of rubbee crops was due to a flood in November last.	
	Howrah	175	914	21	Masuri Pease Kala Kheari Musoor Peas Mustard	15 "	15 "	The rainfall in last November affected the outturn of the rubbee crops.	
	District Total	1,471	1,140	324					

1	2	3	4	5	6	7	8	9	10
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubber crops in square miles.	Names of principal rubber crops of sub-division.	Estimated outturn expressed in annas of current year's rubber crops.	Estimated outturn of previous year's rubber crops.	Remarks by the Collector.	Remarks by the Director of Agriculture.
BURDWAN DIVISION—concluded.									
Hooghly—concluded.	Uluberiah ...	200	200	5 7 6 6 4 2 2 5	Musoor ... Khesari ... Watermelons, potatoes and utchah, and arhar. Mustard ... Linseed ... Peas ... Til ... Bora ...	13 annas	15 annas	The rainfall in last November affected the outturn of the rubber crops.	
	District Total	1,500	1,082.75	365.50					
PRESIDENCY DIVISION.									
24-Per-gunnahs.	Sudder and amalgamated part of Suburbas, including late Baripore, Diamond Harbour.	1,070	777	10 10 5 5	Pulses, viz:— Kulai ... Musoor ... Matar ... Gram ...	10 annas	12 annas.		No explanation of the deficient outturn is offered by the Collector. The excessive rainfall of November must have affected the outturn. In Baraset and Basirhat the outturn has probably been under-estimated.
	Baraset	500	340	12 5 5	Kulai ... Gram ... Musoor ...	5 "	20 "		
	Baerhat	550	400	5 1 10 3 2	Gram ... Moong ... Peas ... Khesari ... Rape-seeds ...	5 "	20 "		
	Barackpore	40	12	1004	Peas ... Gram ... Moong ... Musoor ... Mustard ... Peas ...	12 " 10 " 12 " 12 " 10 " 4 "	12 "		
	Dum-Dum	50	21	1				ND	
	District Total		1,000	30					
Chooch.	Sudder	1,573.44	300	100	Oilseeds, viz., Til, linseed, mustard, &c.				
	Baerhat	1,270.88	440	20	Musoor ... Turmeric ... Chilni ... Kulai ... Peas ... Khesari ... Arhar ... Moong ... Mustard ... Others	12 annas	8 annas	The excessive rainfall at the latter part of November, which delayed the germination and retarded the growth of the rubber crops, and the deficient rainfall during the rest of the year, diminished the outturn.	The rainfall records show sufficient rainfall in this district in December and January.
	Area of boundary, khals and rivers of the Sunderbans in this district.	1,500.00	500	11					
	District Total	4,344.32	1,250	230.75					
Haldia.	Sudder	701	404	150	Wheat, barley, oats, mustard, linseed, peas, gram, moong, kulai, musoor, til.	9 annas.	12 annas	Excessive frost and consequent deposit of silt did some good to some of the rubber crops, but others suffered from the heavy fall of rain in November last.	
	Choomdanga	407	273	218	Linseed ... Gram ... Wheat ... Musoor ... Arhar ... Mustard ... Moong ... Kulai ... Peas ...	6 " 6 " 3 " 6 " 3 " 2 " 2 " 3 " 3 "	12 " 12 " 6 " 6 " 6 " 4 " 4 " 6 " 6 "	Much injury was done to the rubber crops by the rain which fell in November last.	The extremely low outturn of rubber crops in the Choomdanga and Ranaghat subdivisions cannot be wholly accounted for by the excessive rainfall of November. Arhar, moong, and kulai, all of which were in full growth at the time of the November rain, could not possibly be injured to the extent of 14 annas by the excessive rain in Choomdanga. The Collector's estimate cannot be accepted.
	Kushia	500	410	140	Mustard, khesari, moong, mas-kulai, musoor, wheat, barley, chooma, gram, linseed, til, peas.	10 "	6 "	Ditto	ditto.
	Maharpara	607	500	200	Kulai ... Moong ... Arhar ... Wheat ... Mustard ... Peas ... Musoor ... Rape-seeds ... Til ... Gram ... Linseed ... Chilni ... Other crops	6 " 14 " 12 " 14 " 10 " 12 " 14 " 14 " 10 " 12 "	14 " 14 " 10 " 12 "	Ditto	ditto.
	Ranaghat	407	255	192	Wheat ... Barley ... Peas ... Pulses ... Mustard ... Linseed ...	8 "	12 annas	Ditto	ditto.
	District Total	2,700	1,920	500					

* This includes Sunderbans 2,778.91 square miles appertaining to this district.

1	2	3	4	5	6	7	8	9	10
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubber crops in square miles.	Name of principal rubber crops of sub-division.	Estimated outturn expressed in annas of current year's rubber crops.	Estimated outturn of previous year's rubber crops.	Remarks by the Collector.	Remarks by the Director of Agriculture.

PRESIDENCY DIVISION—concluded.

Jessore	Sudder	889	478	30 23 9 14 18 13 3 14 10 185	Kalai Moong Arhar Peas Musoor Chillies Barley Gram Oilseeds Boropaddy	10 annas 11 .. 6 .. 9 .. 8 .. 11 .. 10 .. 7 .. 4 .. 11 ..	10 annas 12 .. 9 .. 10 .. 10 .. 12 .. 14 .. 17 .. 8 .. 19 ..	Unseasonable rainfall in last November caused the decrease in the outturn of the rubber crops.	
	Bongong	549	349	34 47 34 15 6 6 18 7	Mustard Linseed Gram Arhar Moong Kala Peas Musoor	12 .. 14 .. 14 .. 4 .. 14 .. 14 .. 16 .. 14 ..	12 .. 12 .. 14 .. 6 .. 10 .. 12 .. 14 .. 12 ..	The rain in last November diminished the outturn. The arhar plants were destroyed by floods.	
	Narail	467	8,632	91.8 17.1 4.7 8.7 39.9 22.9	Peas Khesari Moong Masakalai Mustard Rape-seed	7 .. 7 .. 7 .. 6 .. 7 .. 7 ..	14 .. 14 .. 14 .. 13 .. 14 .. 14 ..	The decrease in the outturn was due to the unseasonable rain in November last. The seed rotted owing to excessive rainfall, and the cultivators had to sow again in the latter part of that month.	
	Magorah	423	288	6 4 6 19 4 3	Rape-seed Mustard Linseed Peas Moong Masakalai	6 .. 9 .. 9 .. 10 .. 10 .. 10 ..	8 .. 10 .. 10 .. 13 .. 12 .. 12 ..	The outturn of this year's rubber crops was much affected by the very heavy rain in the middle of November last, when the seed had not sufficiently germinated.	
	Jhenda	479	317	14 10 7 3 2 10 10 30	Kala Moong Peas Barley Wheat Gram Musoor Chillies Boropaddy	16 .. 16 .. 6 .. 6 .. 6 .. 6 .. 6 .. 8 .. 12 ..	2 .. 2 .. 12 .. 8 .. 6 .. 6 .. 6 .. 10 .. 19 ..	The diminished outturn of the rubber crops is due to excessive rainfall in the latter end of November.	
	District Total	3,905	1,816.2	349.6					
	Lalbagh	372	223	29.6 15.8 19.8 15.8 17.9 7.9	Wheat Barley Gram Linseed Musoor Other minor crops	14 annas 14 annas 14 annas 14 annas 14 annas 14 annas	15 annas 15 annas 15 annas 15 annas 15 annas 15 annas	Owing to the loss of bhadoi crops by the floods of September last, a comparatively larger area was sown this year with rubber crops, and as the lands in some places were enriched by the deposit of silt, it was expected that the outturn would be above the average, but the expectation was not fully realised owing to the heavy rains of November last, and the cloudy weather in December. In the Jungipore sub-division some of the rubber crops were damaged by insects.	
	Jungipore	608	444	211	Wheat Linseed Barley Gram Mustard Kala Other crops	12 .. 12 .. 12 .. 12 .. 12 .. 12 .. 12 ..	16 .. 16 .. 16 .. 16 .. 16 .. 16 .. 16 ..		
	Kandi	512	400	30	Wheat Linseed Barley Gram	12 .. 12 .. 12 .. 12 ..	16 .. 16 .. 16 .. 16 ..		
	Sudder	767	678	16 16 30 78 43 6 60 6 35 3 10	Barley Mustard Wheat Til Linseed Kala Arhar Gram Peas Musoor Moong Other crops	14 .. 14 .. 14 .. 14 .. 14 .. 14 .. 14 .. 14 .. 14 .. 14 .. 14 .. 14 ..	12 .. 12 .. 12 .. 12 .. 12 .. 12 .. 12 .. 12 .. 12 .. 12 .. 12 .. 12 ..		
District Total	2,189	1,452	686						

RAJSHAHY DIVISION

Dumapores.	Sudder	3,381	1,960	62	Mustard	...	10 annas	10 annas	The short outturn is due to the deficient rainfall at sowing time.
					Potato	...			
					Wheat	...			
					Barley	...			
					Peas	...			
					Oilseed	...			
					Pepper	...			
					Mustard	...			
					Potato	...			
					Bengal	...			
					Gram	...			
					Wheat	...			
					Peas	...			
					Chillies	...			
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DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubber crops in square miles.	Names of principal rubbers crops of sub-division.	Estimated outturn expressed in annas of current year's rubber crop.	Estimated outturn of previous year's rubber crop.	Remarks by the Collector.	Remarks by the Director of Agriculture.
RAJSHAHY DIVISION—concluded.									
RAJSHAHY.	Sudder	344	335	143	Wheat Pulses Mustard Linseed Chenna Wheat Pulses Mustard Linseed Kharachi Wheat Chenna Pulses Ginger Linseed Mustard Turmeric Potato	12 annas	9 annas	The untimely rain in the latter part of November damaged the crops, especially in the Nattore sub-division.	In the Nowgong sub-division the rainfall in November was not excessive (150 inch). The deficient outturn in this sub-division may be partly attributed to scarcity of rainfall in October and the first half of November.
	Nattore	317	301	130	Wheat Pulses Mustard Linseed Kharachi Wheat Chenna Pulses Ginger Linseed Mustard Turmeric Potato	11 ..	13 ..		
	Nowgong	303	300	110 25	Wheat Pulses Mustard Linseed Kharachi Wheat Chenna Pulses Ginger Linseed Mustard Turmeric Potato	11 ..	24 ..		
	District Total	2,364	1,978	600 25					
BANGPORE.	Bangpore	1,151	900	60	Potato Mustard Pulses Brinjal Chillies Mustard Wheat Pulses Ginger Potatoes Pulses Mustard Wheat	14 annas	16 annas	A large part of the area in the Kurigram sub-division, on which the rubber crops were sown, was flooded, and hence the outturn is less than average.	
	Naiphamari	636	460	30	Wheat Pulses Ginger Potatoes Pulses Mustard Wheat	14 ..	13 ..		
	Kurigram	387	700	130	Wheat Pulses Mustard Wheat	11 ..	11 ..		
	Gaibanda	700	570	35	Wheat Mustard Pulses Obina and kaun	16 ..	16 ..		
Bogra.	District Total	2,968	2,630	307				Unseasonable rain in the middle of November did harm to some of the crops. More harm was done to the crop by hailstone over a limited area in the north of the district in the third week of January.	
	Bogra	1,452	913	64	Musoor Kharachi Linseed Mustard Wheat Til Gram Barley Mustard Kharachi Potato	14 annas	15 annas		
	District Total	1,652	913	60					
	District Total	1,652	913	60					
Pabna.	Sudder	600	587	163	Pulses Oilseeds Wheat Barley Chenna	9 annas	8 annas	The unseasonable rainfall in November last diminished the outturn of the rubber crops.	
	Berajganga	267	713	160	Pulses Oilseeds Sunn	14 ..	8 ..		
	District Total	1,867	1,300	713					
	District Total	1,867	1,300	713					
DARJEELING.	The Terai	263	174	4	Mustard Onion Til Potato Pulses	15 annas	4 annas	Sufficiency of rainfall in the Terai caused better outturn this year.	
	Kumong	188	13	—	Urid Onion Potato Peas Mustard	—	4 ..		
	Kalimpong	726	89	3	Wheat Barley Mustard Urid	13 ..	16 ..		
	District Total	1,166	275	20 25					
JALPAIGURI.	Raikantpore pergunnah.	447	286	27	Mustard Wheat Pulses Kaun Potato Mustard	13 annas	12 annas	The rain of the 20th and 24th January last damaged mustard and pulses, but improved the prospects of other rubber crops.	The extremely low yield of the rubber crops, especially wheat and barley in Patgram, is not accounted for. The rainfall in January was not at all excessive or unusual and could not reduce the yield of wheat and barley to 1/2 annas. The Deputy Commissioner's figures are clearly wrong.
	Boda pergunnah.	603 72	205	14	Wheat Pulses Kaun Potato Mustard	13 ..	12 ..		
	Patgram pergunnah.	50 20	75	4	Wheat Pulses Kaun Potato Mustard	13 ..	12 ..		
	District Total	2,651 90	1,441	141					

1	2	3	4	5	6	7	8	9	10
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubber crops in square miles.	Names of principal rubber crops of sub-division.	Estimated outturn expressed in annas of current year's rubber crops.	Estimated outturn of previous year's rubber crops.	Remarks by the Collector.	Remarks by the Director of Agriculture.
DACCA DIVISION.									
Dacca	Sudder	1,085	685	25	Mustard ... Peas, mung, and musoor ... Mash-dai ... Kheari ... Chillies ... Barley ... Cheena ... Kaun ... Safflower ...	10 annas 9 .. 10 .. 10 .. 10 .. 13 .. 10 .. 10 .. 10 ..	13 annas 11 .. 11 .. 11 .. 11 .. 14 .. 10 .. 10 .. 10 ..	The excessive rainfall in November and January affected the growth of the rubber crops this year. In the previous year the deficient outturn was due to insufficient rain in December and January.	There was excessive rainfall in November throughout the district.
	Narsingganj	641	310	7	Kheari ... Masuri ... Peas ... Mustard ... Kheari ... Cheena ... Kaun ... Moong ... Mash-dai ...	6 .. 6 .. 6 .. 6 .. 6 .. 6 .. 6 .. 6 .. 6 ..	10 .. 10 .. 10 .. 10 .. 10 .. 10 .. 10 .. 10 .. 10 ..	Late rain in January damaged this year's crops, and last year's crops suffered from want of rain.	In January the rainfall in this sub-division was in excess of the normal (78 inch against the normal fall of 50 inch), but this does not account for the very low estimate.
	Manikganj	491	300	10	Mustard ... Peas ... Cheena ... Kaun ...	10 .. 10 .. 12 .. 12 ..	10 .. 10 .. 12 .. 12 ..	The excessive rainfall in November affected the growth of the current year's rubber crops, and the deficiency of rain affected that of the last year's crops.	
	Manikganj	490	300	10	Mustard ... Peas ... Mash-dai ... Kheari ...	6 .. 1 .. 9 .. 1 ..	10 .. 6 .. 10 .. 6 ..	Owing to the scarcity of fodder caused by the last flood, peas, khalai and kheari were sown in more lands this year than in the last year, with a view to supply fodder also. The heavy rains in the beginning of the winter season damaged peas and kheari. They also caused damage to a certain extent to mustard and mash-dai. Last year the outturn of rubber crops, excepting mustard, were affected by deficiency of rainfall.	The outturn of crops and the rain in Manikganj appear to have been under estimated.
	District Total	2,797	1,590	52					
	Sudder	680	380	15	Mustard ... Peas ... Moong ... Kheari ... Khalai ... Musoor ... Gram ... Barley ...	10 .. 10 .. 10 .. 10 .. 10 .. 10 .. 10 .. 10 ..	10 .. 10 .. 10 .. 10 .. 10 .. 10 .. 10 .. 10 ..	This year's rubber crops suffered still more than those of the previous year owing to (1) unusual rainfall in November last, and (2) heavy floods which delayed the cultivation and sowing.	
	Goalanda	680	380	15	Mustard ... Peas ... Moong ... Kheari ... Khalai ... Musoor ... Gram ... Barley ...	10 .. 10 .. 10 .. 10 .. 10 .. 10 .. 10 .. 10 ..	10 .. 10 .. 10 .. 10 .. 10 .. 10 .. 10 .. 10 ..	The short outturn is due to the unusual rainfall in November last.	
	Madaripore	970	680	15	Mustard ... Kheari ... Miscellaneous rubber crops ...	10 .. 10 .. 10 ..	10 .. 10 .. 10 ..		
	District Total	2,927	1,670	55					
Barisal	Barisal	1,111	680	15	Kheari, musoor, mustard, mung, mason, chillies, peas.	10 annas	9 annas		
	Paranpore	680	400	15	Roro dhan ... Musoor ...	14 .. 14 ..	14 .. 14 ..	Late rain in November last damaged the rubber crops to some extent in the district.	
	Patnakhali	1,085	221	2	Moong ... Musoor ... Chillies ... Kheari ... Linseed ...	10 .. 10 .. 10 .. 10 .. 10 ..	10 .. 10 .. 10 .. 10 .. 10 ..		
	Roha	615	200	7					
	District Total	4,491	1,521	102					
Hymen-singh	Sudder	1,080	1,081	100	Mustard ... Khalai (pulses) ... Miscellaneous ... Mustard ... Khalai (pulses) ...	9 annas 6 .. 6 .. 6 .. 10 ..	13 annas 8 .. 8 .. 8 .. 13 ..	Heavy rain after sowing and during harvest time affected the crops.	
	Kishoreganj	944	200	20					
	Netrokona	300	604	20	Mustard ... Pulses ... Miscellaneous ...	14 .. 12 .. 12 ..	14 .. 12 .. 12 ..		
	Jamalpur	1,346	680	100	Mustard ... Pulses ...	9 .. 10 ..	10 .. 10 ..		
	Tangail	1,081	700	20	Mustard ... Pulses ...	15 .. 15 ..	15 .. 15 ..		
	District Total	6,057	3,715	202					

* This includes the area under tea cultivation.

1	2	3	4	5	6	7	8	9	10
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubber crops in square miles.	Names of principal rubber crops of sub-division.	Estimated outturn expressed in annas of current year's rubber crops.	Estimated outturn of previous year's rubber crops.	Remarks by the Collector.	Remarks by the Director of Agriculture.

CHITTAGONG DIVISION.

Upperah	Comilla or Sudder.	1,168	912	111	Mustard... .. 10 annas	11 annas	The outturn is short owing to excessive rain at the time of sowing.	
				36	Onions 12 ..	10 ..		
				50	Chillies 10 ..	11 ..		
				17	Coriander seed 8 ..	10 ..		
				104	Khesari 8 ..	11 ..	Pulses and mustard were damaged by excessive rain at the time of sowing.	
				30	Moong 8 ..	10 ..		
				61	Kalai 9 ..	10 ..		
				34	Musoor 9 ..	10 ..		
				25	Linseed 10 ..	10 ..		
					Pulses 16 ..	16 ..		
					Mustard 16 ..	16 ..		
					Til 16 ..	16 ..		
	Brahmanberia	700	553-08	116-00	Chillies 17 ..	16 ..		
					Onions 16 ..	16 ..		
					Garlic 16 ..	16 ..		
					Turmeric 14 ..	15 ..		
	Chandpore ...	880	610	15	Coriander seed 14 ..	15 ..		
				10	Khesari 12 ..	13 ..		
				25	Til 15 ..	16 ..		
				10	Chillies 16 ..	14 ..		
	District Total	2,401	1,875-08	637-00	Moong 11 annas	10 annas	Untimely heavy rain affected the growth of the rubber crops.	The rainfall of November was below the normal in the Fenny sub-division. The Collector's explanation of the deficient yield of rubber crops in this sub-division is not therefore confirmed by the rainfall records.
	Sudder ...	1,305	1,000	5	Khesari 11 ..	11 ..		
	Fenny ...	345	230	5	Kalai 10 ..	8 ..		
				5	Moong 8 ..	8 ..		
	District Total	1,641	1,230	100	Khesari 8 ..	8 ..		
	Sudder ...	1,000	815	29-3	Chillies 4 annas	5 annas		
				24-44	Kalai 16 ..	6 ..		
				30-94	Khesari 13 ..	6 ..		
				22-40	Moong 8 ..	8 ..	The outturn is generally good owing to timely rainfall this year.	
				6-72	Mustard 30 ..	8 ..		
				11-30	Penn 16 ..	6 ..		
				17-93	Sweet potato 16 ..	12 ..		
				12-08	Gourds 9 ..	7 ..		
				4-48	Melons 11 ..	6 ..		
				6-56	Kachoo 16 ..	10 ..		
				2-30	Til 30 ..	6 ..		
	Ox's Bazar ...	987	647-08	26-08	Chillies 12 ..	10 ..		
				18-0	Brinjal 12 ..	10 ..		
				2-0	Onions 12 ..	10 ..		
				6-08	Mustard 12 ..	10 ..		
	District Total	2,567	1,602-08	289-61	Kalai 12 ..	10 ..		
	Sudder ...	2,563-5, of which 1,062-5 are reserved forests.	37-48 jum land, 94 ploughed land.	15-30	Cotton 4 annas	5 annas		
				2-05	Til 4 ..	4 ..		
					Mustard 4 ..	4 ..		
	Bungoo ...	1,855-5, of which 842-3 are reserved forests.	18-76 of jum land, 9 ploughed land.	6-35	Cotton 4 ..	4 ..	The cotton crop of this year was greatly affected by untimely rain. The heavy rain that fell just after the greater portion of the mustard crop was sown, caused the seed to rot, and in many places the crop had to be resown.	The outturn of til and mustard seems to be under-estimated.
				1-75	Til 4 ..	4 ..		
					Mustard 4 ..	4 ..		
	District Total	5,419	74-70	22-35				

PATNA DIVISION.

Bankipore ...		617	467	22	Khesari 14 annas	13 annas	The outturn is less than average, as there was very little rain at the time of sowing.	Besides scarcity of rain at sowing time, there was no rain in the district during December, January, and February. The want of rain in this period must have caused injury to the rubber crops.
				27	Musoor 14 ..	13 ..		
				30	Gram 14 ..	12 ..		
				30	Peas 14 ..	12 ..		
Barh ...		886	685	100	Wheat 14 ..	12 ..	This year a larger area was cultivated and sown with rubber crops owing to the timely rain during the ploughing and sowing time, and to the deposit of silt by floods. But the outturn has been reduced for want of sufficient rain during time of the crop maturing. Last year's outturn was affected by excessive rainfall in February 1889.	
				80	Khesari 14 ..	12 ..		
				64	Barley 14 ..	12 ..		
				55	Wheat 14 ..	12 ..		
Dinapore ...		148	118	9	Musoor 8 ..	13 ..	The outturn of this year's rubber crop was affected partly by the deficiency of rainfall during the months of October and December last, and partly by the injuries done by worms.	
				13	Oat 8 ..	13 ..		
				7	Khesari 8 ..	13 ..		
				18	Mustard 8 ..	13 ..		
Behar ...		795	678	145	Linseed 12 ..	9 ..	This year a larger area was under rubber cultivation, and the outturn would have been more had there been sufficient rain during the sowing time. Last year's crop was damaged by rain accompanied by hailstones that fell in February 1889.	
				45	Arhar 12 ..	9 ..		
				80	Wheat 12 ..	9 ..		
				87	Gram 12 ..	9 ..		
District Total		2,079	1,558	1,007	Musoor 12 ..	9 ..		
				20	Arhar 12 ..	9 ..		
				18	Khesari 12 ..	9 ..		
				15	Linseed 12 ..	9 ..		

1	2	3	4	5	6	7	8	9	10
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubber crops in square miles.	Names of principal rubber crops of sub-division.	Estimated outturn expressed in annas of current year's rubber crops.	Estimated outturn of previous year's rubber crops.	Remarks by the Collector.	Remarks by the Director of Agriculture.
PATNA DIVISION—continued.									
Sudder	Sudder	1,820	1,436	482	Abecari	14 annas	10 annas	The increase in area under rubber crops in this sub-division was due to favourable rain at the sowing season. Wheat and gram suffered from want of halhiya rain and were also injured to a certain extent by an insect called kapa, which cut off the top of the blades when they had attained a span's height.	
					Wheat				
					Gram				
					Barley				
					Peas				
Nowada	Nowada	1,020	765	122	Musoor	14 "	11 "	There being no rain at the time of sowing, the outturn of rubber crops is estimated to be 2 annas below the average.	
					Khesari				
					Linseed				
					Mustard				
					and other cereals.				
Jahanabad	Jahanabad	607	463	38	Khesari	10 "	8 "	The good harvest is due to favourable rainfall both at the sowing and ripening time.	
					Wheat				
					Gram				
					Barley				
					Peas				
Aurangabad	Aurangabad	1,346	747	164	Wheat	16 "	14 "	In Aurangabad there being sufficient moisture in the lands, the outturn of rubber crops is estimated to be 16 annas.	
					Barley				
					Gram				
					Linseed				
					Musoor				
District Total		4,712	3,410	1,282					
Shahabad	Arrah	915	778	40	Gram	14 annas	13 annas	The crops suffered to some extent from failure of halhiya and Christmas rains.	The Collector's remark applies to the whole district.
					Peas				
					Barley				
					Onia				
					Linseed				
Buxar	Buxar	655	463	351	Mustard	14 annas	12 annas		
					Wheat				
					Cotton				
					Musoor				
					Khesari				
Samsonam	Samsonam	1,406	980	90	Arhar	13 "	10 "		
					Wheat				
					Peas				
					Gram				
					Barley				
Shahabad	Shahabad	1,301	970	100	Achur	12 "	6 "		
					Arhar				
					Khesari				
					Musoor				
					Linseed				
District Total		4,265	3,128	1,196					
Sudder	Sudder	1,322	929	51	Barley	12 to 13 annas	8 to 12 annas	The outturn would have been excellent had there not been want of rain in November and December.	In the Mathurani sub-division, there was no rain in October, November, and December. A 16-anna crop is therefore scarcely probable.
					Wheat				
					Gram				
					Arhar				
					Mustard				
Tajpra	Tajpra	764	60	124	Linseed	12 "	13 annas	The crops on the banks of the Gunderuck and the Ganges were good owing to the soil deposited by floods. When the outturn was diminished by want of rain in November and December and.	
					Wheat				
					Barley				
					Peas				
					Musoor				
Mathurani	Mathurani	1,348	1,109	40	Arhar	16 "	5 "	Last year the outturn was poor owing to the insufficiency of rainfall.	
					Wheat				
					Barley				
					Mustard				
					Arhar				
District Total		1,320	970	1,001					

1	2	3	4	5	6	7	8	9	10
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubber crops in square miles.	Names of principal rubber crops of sub-division.	Estimated outturn expressed in annas of current year's rubber crops.	Estimated outturn of previous year's rubber crops.	Remarks by the Collector.	Remarks by the Director of Agriculture.

PATNA DIVISION—concluded.

Muzaffarpore	Muzaffarpore	1,518	980	150 124 70 180 50 10	Barley ... Wheat ... Gram ... Peas, khosari and musoori ... Oilseeds ... Others ...	14 annas	12 annas	Rainfall at the end of November and January last had been very beneficial to this season's crops.	In Muzaffarpore there was no rain from the last week of September till the middle of November, and again from then till the 14th of January.
	Hajipore	771	580'6	25 20 10 20 9 10 107	Barley ... Wheat ... Gram ... Arhar ... Mustard ... Kharo ... Others ...	10 ..	12 ..		
	Shamabhi	1,014	770'64	50 30 40 20 100 40 50	Barley and peas ... Wheat ... Gram & mustard ... Arhar ... Kharo ... Linseed & musoori ... Others ...	14 ..	10 ..		
	District Total	3,003	2,330'34	1,181					
Sudder	Sudder	988	980	32 28 27 25 15 10 12 10 10 5	Barley ... Wheat ... Gram ... Arhar ... Peas ... Kharo ... Musoori ... Linseed ... Oilseeds ... Oats ... Other crops ...	16 annas	12 annas	The weather was quite favourable from the beginning. Had there been a little rain in December the outturn would have been a bumper one. The increase in the estimated area under rubber was due to the fact that in many places where the rice and bhadoi crops were destroyed by inundation, the land occupied by them was quickly ploughed again on the waters receding and rubber crops were sown.	From the rainfall records the weather does not appear to have been wholly favourable to rubber crops. There was deficient rainfall at sowing time, the entire months of October and the first half of November having been rainless. Again the three following months of December, January, and February were perfectly rainless. A 16-anna harvest seems therefore to be an over-estimate.
	Sowah...	663	660	118 70 20 20 10 23 7 5	Barley ... Wheat ... Arhar ... Gram ... Musoori ... Peas ... Kharo ... Oats ...	16 ..	16 ..		
	Gopalgunge	771	600'50	40 70 18 18 10 12 16 9	Wheat ... Barley ... Peas ... Gram ... Musoori ... Kharo ... Arhar ... Mustard ... Turi ... Potatoes ...	12 ..	12 ..		
	District Total	2,021	2,129'50	901					
Chumpu-rub.	Sudder	1,518	1,033	136 45 100	Wheat ... Barley ... Mustard ... Linseed and other oilseeds ... Oat, gram, peas, musoori, khosari, arhar ...	16 annas	12 annas	The better outturn in this year as compared with last year is due to sufficient moisture being left in the soil by the rain of the middle of November last. The rain of the 23rd and 24th January 1890 also materially improved the prospects of the crops.	
	Bettiah	2,013	1,300	200 75 225 50	Wheat ... Linseed ... Mustard ... Barley ...	14 .. 14 .. 14 .. 12 ..	12 ..		
	District Total	3,531	2,333	401					

BHAGULPORE DIVISION.

Sudder	Sudder	1,039	1,001	463 500	Wheat ... Barley ... Gram ... Peas ... Kharo ... Mustard ... Linseed ... Arhar ...	12 annas	12 to 14 annas.	The rubber crops, especially on high lands, were affected to a considerable extent by want of rain in December and January, and hence the diminished outturn.	In the Sudder sub-division, there was no rain in October, November, December or January, and the greater part of February. In the Jammu and Begusarai sub-divisions, there was some rain in October and November, but none during the rest of the season. The outturn seems to be over-estimated.
	Begusarai	740	577	41 480	Wheat ... Barley ... Peas ... Gram ... Arhar ... Musoori ... Kharo ... Mustard ... Linseed ... Chillies ... Oats ... Wheat ...	13 to 15 annas.	12 to 14 annas.		
	Jammu	1,001	1,003	180 427	Peas ... Kulthi ... Musoori ... Kharo ... Barley ... Gram ... Arhar ...	16 annas.	12 annas.		
	District Total	2,781	2,581	1,063					

1	2	3	4	5	6	7	8	9	10
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubber crops in square miles.	Names of principal rubber crops of sub-division.	Estimated outturn in annas of current year's rubber crops.	Estimated outturn of previous year's rubber crops.	Remarks by the Collector.	Remarks by the Director of Agriculture.
BHAGULPORE DIVISION.—concluded.									
Bhagulpore.	Sudder ...	904	622	276	Wheat ... 10 annas Barley ... 10 Linsed ... 8 Rape-seed ... 8 Mustard ... 10 Oats ... 10 Gram ... 12 Other pulses ... 10	8 annas		The oilseeds did not get the rain of Kartik on which they are so dependent. The wheat suffered from want of rain in January.	
	Banka ...	1,185	888	108	Barley ... 10 Wheat ... 10 Linsed ... 10 Gram ... 10 Arhar ... 10	8 to 10 annas		The poor outturn is due to deficiency of rain in October and November. There was no rain afterwards.	The distribution of rainfall was similar in Bhagulpore and Monghyr. The lower outturn of rabi crops in the latter may be due to the lands of this district being higher than in Monghyr and the districts of the Patna division.
	Mudohpurah ...	879	542	126	Wheat ... 6 Mustard ... 6 Linsed ... 6 Arhar ... 10	7 annas			
	Saspol ...	1,275	954	220	Mustard ... 4 to 5 annas Wheat ... 4 to 5 Linsed ... 4 to 5 Arhar ... 4 to 5 Barley ... 4 to 5	8 to 10 annas		Want of rain in October and November injured the oilseeds.	
	District Total	4,260	3,041	554					
Purneah.	Sudder ...	2,972	1,939	371	Wheat ... 14 annas Gram ... 16 Mustard ... 16 Arhar ... 12 Kulthi ... 16 Khesari ... 16 Musoor ... 16 Wheat ... 16 Oilseeds ... 16 Gram ... 12 Linsed ... 12 Musoor, &c. ... 12 Other crops such as—	12 annas		Rainfall was not sufficient for wheat.	
	Arrureah ...	1,044	700	3	Khesari ... 12 Musoor, &c. ... 12 Gram ... 12 Linsed ... 12 Musoor, &c. ... 12 Other crops such as—	12 annas		Wheat suffered much from want of rain. The outturn of oilseeds and masuri was very good owing to the deposit of silt by floods.	Want of rain was felt in October and November at sowing time.
	Kishengunge ...	1,340	1,040	120	Khesari ... 12 Musoor, &c. ... 12 Gram ... 12 Linsed ... 12 Musoor, &c. ... 12 Other crops such as—	12 annas		The rainfall in January last improved the prospects of the rubber crops. Mustard suffered very much from want of water at a very early stage.	
	District Total	4,966	3,634	552					
	Whole district	1,902	1,308	310	Wheat ... 12 annas Barley ... 12 Gram ... 16 Kulthi ... 16 Musoor ... 16 Oilseeds ... 16	12 annas		The crops suffered a little from want of timely rainfall.	Want of rain was felt in December, January, and February.
Sonthal Pergunnahs.	Dumka ...	1,489	708	84	Mustard ... 12 annas Surguja ... 12 Arhar ... 12 Kulthi ... 12	12 annas			
	Deoghar ...	964	367	231	Gram ... 16 Wheat ... 16 Linsed ... 16 Barley ... 16	8 annas			
	Godda ...	945	673	200	Wheat ... 4 Barley ... 4 Linsed &c. ... 4	8 annas		Want of rain in the cold weather affected the outturn of rubber crops. Last year's hailstorm injured rubber crops.	The want of rain referred to by the Deputy Commissioner was felt in December, January, and February equally in all subdivisions. It is not therefore clear why the crops should fare well in Jamara, Deoghar, and Dumka, and so badly in Godda.
	Rajmahal ...	740	535	116	Mustard ... 12 Wheat ... 12 Gram, &c. ... 12	8 annas		The untimely rise of the Ganges water and heavy fall of rain in October did much injury to the crops in the Pakour Sub-division.	
	Jamara ...	600	105	20	Arhar ... 16 Kulthi ... 16 Rape-seed, &c. ... 16	10 annas			
Pakour	Pakour ...	503	511	100	Wheat ... 11 Barley ... 11 Gram ... 11 Pulses ... 11 Oilseeds ... 11	12 annas			
	District Total	5,408	2,902	772					
ORISSA DIVISION.									
Onitack ...		209	523	25	Beri ... 6 annas Moong ... 6 Kulthi ... 6 Alhar ... 6 Gram ... 6 Harguri ... 6 Pase ... 7 Mustard ... 4	7 annas		The excessive rainfall in last November affected this year's rubber crops very much.	It is not clear why Kulthi and moong should yield 14 and 16 annas respectively, while Alhar and mustard only 4 annas. Kulthi is so liable to injury or excess of rain in November as mustard or Alhar.
Bank ...		114	60	12	Kulthi ... 14 Moong ... 16 Alhar ... 4 Mustard ... 6	9 annas		The heavy rains in last November damaged Alhar and mustard.	

1	2	3	4	5	6	7	8	9	10
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubber crops in square miles.	Names of principal rubber crops of sub-division.	Estimated outturn expressed in annas of current year's rubber crops.	Estimated outturn of previous year's rubber crops.	Remarks by the Collector.	Remarks by the Director of Agriculture.

DACCA DIVISION—concluded.

Cutch	Kendraparab ..	1,494	801	34 24 141 14 34 18	Biri ... Moong ... Kulthi ... Arhar ... Burguri ... Gram ...	6 annas	16 annas	Untimely heavy rain, attended by high winds, just when some of the crops were flowering and others germinating, damaged this year's rubber crops.	
	Jajpore ...	1,104	500	17 8 20 8	Biri ... Moong ... Kulthi ... Arhar ... Moong ... Arhar ... Kulthi ... Gram ... Caster-seeds ... Mustard ... Rasi ...	8 6 8 8 8 16 16 6 to 8 6 to 8 10 to 12 10 to 12	20 16 20 12 12 16 16 6 to 8 6 to 8 10 to 12 10 to 12		
	Angul ...								
	District Total	3,633	1,804	23274					
Balasore	Balasore ...	1,138	670	24 31 24 3	Moong ... Biri ... Arhar ... Mustard ... Other sorts of rubber.	11 annas	12 annas	Owing to the constant and heavy rain in the latter part of November last the outturn of the rubber crops fell short this year.	
	Bhadrach ...	908	720	1723	Arhar ... Moong ... Mustard ... Biri ... Khesari ... Burguri ... Gram ... Kulthi ... Til ...	12	16		
	District Total	2,046	1,390	15423					
	Budder ...	1,530	720-350	14 28 104 2 174 7 2 2 1 1	Moong ... Kulthi ... Biri ... Gram ... Mustard ... Arhar ... Peshi ... Burguri ... Chenari ... Rasi ...	6 annas 7 5 4 4 6 6 7 8 8	8 annas 9 6 6 7 6 6 8 8 8		
Nasir	Khorda ...	900-202	414-00	64-47	Moong ... Kulthi ... Biri ... Arhar ... Gram ... Burguri ... Caster ... Mustard ... Til ...	10 12 6 8 2 2 10 2 2	6 8 8 8 8 8 2 2 2	Arhar, gram and biri suffered from the excessive rain of November last, which also interfered with the sowings of the other rubber crops. Again there was want of rain after the sowing was over. These all combined diminished the outturn.	In Khurda, the injury caused by the November rain was aggravated by the drought which followed it.
	District Total	2,530-702	1,154-350	180-72					

CROTA NAGPORE DIVISION.

Bharatnagar	Head-quarters	4,878	2,307	279	Wheat ... Barley ... Gram ... Arhar ... Mustard ... Til ... Khesari ... Surguja ... Peas ... Munoor ...	15 annas	6 annas	Unlike the last year, the rainfall this year was favourable from the sowing time till the plants attained the state of maturity, when rain held off altogether. This accounts for the increase in the estimated outturn as compared with that of the last year.	The rainfall was thoroughly favourable up to the third week of November, since then no rain fell during the remainder of the season. Under the circumstances a 15-anna crop cannot be looked for. In Lohardugga, where the rainfall was distributed in the same way as in Bharatnagar, the crops are estimated at 6 annas only.
	Girdih	2,446	1,280	255	Wheat ... Barley ... Gram ... Lunseed ... Mustard ... Til ... Surguja ... Arhar ... Khesari ...	15	7		
	District Total	7,324	3,587	534					
Lohardugga	Head-quarters	7,904	1,673	Not known	Gram ... Surguja ... Barley ... Mustard ... Til ... Wheat ... Munoor ... Khesari ... Arhar ... Kulthi ... Bidi ... Gram ... Wheat ... Barley ... Mustard ...	11 annas 13 10 11 10 11 8 15 12 7 10 8 8 8 8 10	7 annas 9 6 7 6 10 7 4 10 8 8 8 8 4 4	If there had been rain at the beginning of January, the outturn of rubber crops would have been better. As there was a good fall of rain at the beginning of sowing season, i.e., in September and October last, the area sown this year with rubber crops was larger than that of the previous year.	The extremely low yield of arhar in Palamow is not intelligible. This crop could not have been much damaged by drought in December and January.
	Palamow	4,241	2,130	850					
	District Total	12,045	3,803	850					

1	2	3	4	5	6	7	8	9	10	
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Estimated area under rubber crops in square miles.	Names of principal rubber crops of sub-division.	Estimated outturn expressed in annas of current year's rubber crops.	Estimated outturn of previous year's rubber crops.	Remarks by the Collector.	Remarks by the Director of Agriculture.	
CHOTA NAGPORE DIVISION—concluded.										
Mun- bhoom.	Gobindpur ...	208	280	4 12 12 20 22 20	Gram Barley Wheat Beri Arhar Mustard	8 annas 8 " 8 " 4 " 16 " 16 "	10 annas 10 " 10 " 10 " 12 " 8 "		The outturn of wheat, barley and gram appears to have been reduced by drought in December, January, and February. The distribution of rain having been alike in both the sub-divisions, it is not clear why wheat and barley should yield 12 annas in one sub-division and 8 annas in the other; or why beri should yield 10 annas in one and only 4 annas in the other.	
	Head-quarters	3,244	1,203	30 80 100 100 20 200	Gram Barley Wheat Beri Arhar Mustard	12 " 12 " 12 " 20 " 10 " 10 "	8 " 10 " 10 " 18 " 13 " 7 "			
	District Total	4,142	1,492	300						
	Kolhan Per- gunnah.	1,948	973	21	Til Mustard Moong Khesari Gram Beri Kado Arhar Kulthi Burguja Peas Munoor	14 annas 14 annas 14 annas 14 annas 14 annas 14 annas 14 annas 14 annas 14 annas 14 annas 14 annas 14 annas	8 annas 8 annas 8 annas 8 annas 8 annas 8 annas 8 annas 8 annas 8 annas 8 annas 8 annas 8 annas	The outturn was affected to some extent by deficiency of rainfall.		
Sing- bhoom.	Porahat ...	640	247	30	Mustard Til Moong Gram Beri Kado Arhar Kulthi Peas Munoor	12 " 12 " 12 " 12 " 12 " 12 " 12 " 12 " 12 " 12 "	8 " 8 " 8 " 8 " 8 " 8 " 8 " 8 " 8 " 8 "		Ditto ditto.	
	Dhatiboom ...	1,147	673	3	Moong Til Burguja Mustard Castor-seed Linsced Beri Khesari	14 " 14 " 14 " 14 " 14 " 14 " 14 " 14 "	4 " 4 " 4 " 4 " 4 " 4 " 4 " 4 "			
	District Total	3,753	1,790	117						
	GRAND TOTAL FOR THE WHOLE OF BRIGAD ...	153,331-719	57,843-49	94,628-125*						

* This excludes area under rubber crops in Agul.

STATEMENT IV.—Showing estimated outturn of important special crops, such as Jute, Tobacco, Ganja, Sugarcane, Opium, Mulberry.

1	2	3	4	5	6	7	8	9	10
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Name of special crop.	Estimated area under special crop in square miles.	Estimated outturn in annas of current year's crop.	Outturn in annas of preceding year's crop.	Remarks by the Collector.	Remarks by the Director of Agriculture.
BURDWAN DIVISION.									
Burdwan...	Sudder ...	1,342	998	Sugarcane ...	17.5	14	10	Went of rain at the planting time affected the outturn of sugarcane.	
	Calna ...	420	300	Jute ...	10	10	8		
	Calna ...	206	206	Sugarcane ...	5				
	Raneegunge ...	671	300	Indigo ...	5				
	Calna ...			Sugarcane ...	1.5	10	14		
Bakora	Sudder ...	1,307	970	Turmeric ...	1	9	13	In Highspore sub-division the weather was more favourable this year than last year.	
	Highspore ...	700	300	Jute and sunn ...	25	10	14		
	Highspore ...			Tobacco ...	25	12	14		
	Highspore ...			Sugarcane ...	2.50	12	15		
	District Total	2,697	2,004		57.79				
Barbhoon	Sudder ...	1,301	970	Sugarcane ...	1	11	11		
	Highspore ...	700	300	Jute and sunn ...	375	9	10		
	Highspore ...			Tobacco ...	50	14	12		
	Highspore ...			Mulberry ...	125	12	12		
	District Total	2,031	1,570		5				
Midnapore	Sudder ...	3,323	1,707	Sugarcane ...	31	16	14	These crops suffered from untimely heavy rainfall.	There was untimely heavy rainfall in November, but this could not affect jute, or mulberry and sugarcane to any great extent unless the fields were flooded.
	Contal ...	601	710	Sugarcane ...	18	16	10		
	Contal ...			Mulberry ...	12	12	12		
	Contal ...			Jute ...	2	8	8		
	District Total	3,924	2,417		53				
Hooghly	Sudder ...	445	270.25	Mulberry ...	167.5	11	12	Insufficient rain at the time of planting did much damage to these crops.	
	Scrumpore ...	365	300	Tobacco ...	10	8	10		
	Scrumpore ...			Jute ...	10	10	12		
	Scrumpore ...			Mulberry ...	20,000	16	14		
	District Total	8,110	5,174		307.562				
Jehanabad	Sudder ...	445	270.25	Sugarcane ...	5	12	14	There was no rainfall at the time of sowing, and hence the deficient outturn. Sugarcane and jute suffered from drought at ploughing time and from too much rain afterwards. Sugarcane was destroyed by frost in the previous year.	
	Scrumpore ...	365	300	Tobacco ...	25	8			
	Scrumpore ...			Sugarcane ...	14.25	10 to 12	10 to 12		
	Scrumpore ...			Jute ...	15.50				
	Scrumpore ...			Melons, &c. ...	1.50				
Kheola	Sudder ...	445	270.25	Sugarcane ...	35	16	3		
	Scrumpore ...	365	300	Tobacco ...	9	16	14		
	Scrumpore ...			Jute ...	10	12	12		
	Scrumpore ...			Sugarcane ...	2				
	Scrumpore ...			Tobacco ...	7				
Presidency Division.	Sudder ...	445	270.25	Jute ...	1	14	8		
	Scrumpore ...	365	300	Sugarcane ...	5				
	Scrumpore ...			Jute ...	1				
	Scrumpore ...			Sugarcane ...	1				
	District Total	1,670	1,063.75		124.75				
PRESIDENCY DIVISION.									
24-Pargunahs.	Sudder and amalgamated part of suburbs including Haripur sub-division.	1,070	717	Jute ...	5.50	13	19		
	Diamond Harbour.	513	465	Tobacco ...	2	10	10		
	Baranot ...	293	243	Sugarcane ...	4	12	19		
	Baranot ...			Jute ...	875	14	16		
	Baranot ...			Tobacco ...	504	8	10		
Kheola	Sudder ...	1,075.40	859	Jute ...	35	14	19		
	Sathura ...	1,173.93	440	Tobacco ...	8				
	Haripur ...	1,508.65	530	Sugarcane ...	24				
	Area of boundary khals and rivers of the 24-Pargunahs in this district.	405		Miscellaneous ...	12.25				
	District Total	4,540.91	1,539		50.25				

* This includes Sunderbans 2,775.91 square miles appertaining to this district.

1	2	3	4	5	6	7	8	9	10
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Name of special crop.	Estimated area under special crop in square miles.	Estimated outturn in annas of current year's crop.	Outturn in annas of previous year's crop.	Remarks by the Collector.	Remarks by the Director of Agriculture.
PRESIDENCY DIVISION—concluded.									
Nodda	Sudder	701	484	Jute	190	4	8	Floods damaged jute and sugarcane.	If jute and sugarcane were injured by floods to extent of 12 annas, the must have injured winter paddy as well. But in return on winter paddy was not so reported.
	Chudanga	487	373	Sugarcane	10	16	12	Want of rainfall in time affected the outturn.	
	Kustia	405	418	Tobacco	25	4	8		
				Jute		9	8	Floods damaged jute and sugarcane.	
	Mahespara	637	506	Sugarcane	104	10	13		
				Tobacco				A good deal of damage was done to the crops by the heavy rainfall in last November.	
				Jute		6	15		
				Sugarcane	54	7	10		
				Tobacco		7	10		
				Jute		10	14		
Ranaghat				Indigo		8	7405		
				Jute	43	8	8		
				Sugarcane		6	12		
				Tobacco		8	12		
District Total		2,750	1,950		351				
Jessore	Sudder	989	675	Jute	9		15	The decrease in the outturn is due to the sudden rise of Ganges water, which drowned the plants over a large area. The cultivation of sugarcane in this subdivision is very insignificant.	
				Tobacco	11		14		
				Sugarcane	3		14		
	Bongong	640	380	Jute	13		12		
				Tobacco	25		15		
	Narail	487	345	Sugarcane	12		8		
				Jute	33		17		
	Magoorah	455	304	Jute	6		10		
				Sugarcane	25		10		
Jhenidah				Jute	15		10		
				Sugarcane	10		9		
				Tobacco	3		10		
	District Total	2,935	1,813		131				
Mureshabad.	Sudder	787	375	Mulberry	24		16	Floods did damage to a certain extent to jute and sugarcane.	
				Jute	4		10		
				Sugarcane	4		10		
				Tobacco	3		10		
				Indigo	16		12		
	Lalbag	373	223	Jute	22		12		
				Tobacco	332		10		
				Sugarcane	3012		12		
				Mulberry	1402				
				Other crops	743				
Jungipore				Tobacco					
				Jute					
				Sugarcane	21		10		
				Indigo					
Kandi				Mulberry					
				Sugarcane					
				Mulberry	20		10		
District Total		2,159	1,653		1640				

RAJSHAHIE DIVISION.

Dinapore	Sudder	3,251	1,930	Jute		6	16	Deficiency of rainfall in proper time affected the outturn of jute, tobacco and sugarcane.
				Tobacco		9	10	
				Sugarcane	157	9	10	
				Ganja		12	8	
Thakurgaon				Jute		10	10	The diminished outturn is due to want of timely rain.
				Tobacco	191	6	16	
				Sugarcane		5		
	District Total	4,110	2,680		450			
Rajshahye	Sudder	944	545	Jute				
				Tobacco	30		12	
				Sugarcane		13	12	
				Mulberry		13	12	
Natore				Jute				
				Tobacco	36		13	
				Sugarcane		10		
				Jute				
Newpore				Tobacco	100		10	
				Ganja		10	10	
				Sugarcane		11	10	
	District Total	2,201	1,275		246			
Rangpore	Rangpore	1,151	940	Jute	123			
				Tobacco	40		16	
				Sugarcane	38		10	
				Indigo	15			
Nelphamari				Wheat	10			
				Jute	120		10	
				Tobacco	60		12	
				Sugarcane	7		12	
Kurigram				Jute	275		14	In Kurigram subdivision a large part of the area on which the rubber crops were sown was flooded.
				Tobacco	175		14	
				Sugarcane	110		12	
				Jute	105		16	
Gaibandha				Sugarcane	40		14	
	District Total	3,458	2,450		1,547			

1	2	3	4	5	6	7	8	9	10
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Name of special crop.	Estimated area under special crop in square miles.	Estimated output in annas of current year's crop.	Output in annas of preceding year's crop.	Remarks by the Collector.	Remarks by the Director of Agriculture.
RAJSHAHY DIVISION—continued.									
Bogra	Bogra	1,408	918	Jute Tobacco Mulberry Ganja Sugarcane	100 7 7 3 17	14 12 10 15	8 9 12 10		
	District Total	1,408	918		140				
Sudder	Sudder	800	607	Tobacco Sugarcane	15 119	12 8	12 12	The heavy and incessant rains in November last prevented the usual cultivation of tobacco, which is grown to a small extent in lands adjoining to homesteads.	
	Darajung	907	719	Tobacco	16	10	8	The sugarcane also suffered from the floods in the preceding years, and yielded but little produce: some lands were silted up with mud and became unfit for the sugarcane cultivation.	
	District Total	1,847	1,285		145				
Siliguri	Siliguri	263	174	Jute Tobacco Sugarcane	16 2 4	15 }	8 }	There was sufficient rain for the rubber crops.	
	Sudder including Kalampong.	728	80	Jute Tobacco	}		5		
	Kurseong	106	12	Sugarcane				No rubber crops grew here this year.	
	District Total	1,104	275*		22				
Malda	Balkantapora pargunnah.	647	296	Jute Tobacco Sugarcane	88 35 27	12 12	8 5	Tobacco suffered from hailstorm, and sugarcane from want of sufficient rain.	The hailstorm was not general all over the Mynasore taluk. The extremely low yields of tobacco and sugarcane are not intelligible.
	Boda	602 73	296	Jute Tobacco Sugarcane Ginger	40 18 12 2	10 10 11 7	9 10 10 5		
	Palgram	80 38	78	Jute Tobacco Sugarcane	14 }	11 12 7	8 16 6		
	Mynasore	256	200	Jute Tobacco Sugarcane	18 7 1 5 3	12 4 3	12 8 5		
	Patharata	746	220	Tobacco	20	14	15		
	Alipore	617	200	Jute	17	16	12		
	Bholka	123	20						
	District Total	2,851 60	1,441		319 5				
DACCA DIVISION.									
Dacca	Sudder	1,200	623	Jute Tobacco Sugarcane	125 10 20	14 10 12	14 10 11	Sugarcane was damaged by unusual rise of water.	
	Naraingunge	641	300	Sugarcane Tobacco	20 20	12 10	11 8		
	Munshigunge	681	300	Jute Sugarcane	40 10	10 12	8 12		
	Mamukgunge	400	200	Jute	20	12	12	Want of rain at the time of sowing affected the output.	
	District Total	2,787	1,540		347				
Barisal	Sudder	870	602	Jute Tobacco Sugarcane	70 25 75	12 12 8	12 12 12		
	Medanipore	879	602	Jute Sugarcane Renn	10 2 50 50	12 8 12	12 12 15		
	Gonanda	408	321	Jute Sugarcane	61 20	12 5	8 5		
	District Total	2,064	1,878		185				
Chittagong	Marol	1,111	608	Sugarcane Jute Tobacco	60 }	12 12 12	12 12 12		
	Persepur	602	608	Sugarcane	12 5	12	12		
	Patukhali	1,020†	281	Sugarcane	1	12	12		
	Bhola	616	300	Sugarcane Jute	1 75 }	12 12	12 12		
	District Total	4,044	1,834		34 75				
Comilla	Sudder	1,640	1,061	Jute Do. Do. Do.	275 95 35 400			Tobacco and sugarcane are cultivated for home consumption only.	
	Kishoregunge	744	350						
	Ketrokma	1,389	604						
	Jamalpur	1,644	630						
	Tangail	1,061	780						
	District Total	6,227	2,715		1,067				

* This excludes the area under tea cultivation.

† This includes the Sunderban area which was not included in previous statements.

1	2	3	4	5	6	7	8	9	10
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Name of special crop.	Estimated area under special crop in square miles.	Estimated outturn in annas of current year's crop.	Outturn in annas of preceding year's crop.	Remarks by the Collector.	Remarks by the Director of Agriculture.

CHITTAGONG DIVISION.

Tipperah...	Oomillah Sudder.	1,148	913	Jute ...	236	15	15		
	Brahmanberia.	769	543'68	Sugarcane ...	71	10	12		
	Chandpore ...	580	419	Tobacco ...	10	10	10		
	District Total	2,497	1,875'68	Jute ...	394	12	12		
Nonkholy	Sudder ...	1,238	1,000	Sugarcane ...	155	10	10		
	Fenny ...	343	280	Betelnut ...	75	10	10		
	District Total	1,581	1,280						
Chittagong	Sudder ...	1,636	615	Tobacco ...	15'44	8	8		
	Cox's Bazar ...	857	647'68	Sugarcane ...	20'16	8	8		
	District Total	2,493	1,262'68	Tobacco ...	27'74	12	10		
				Sugarcane ...	48'03				
Chittagong Hill Tracts.	Sudder ...	3,583'8 of which 1,425'3 are reserved forests.	27'48 jum land 9'50 ploughed.	Tobacco ...	75	10	8		The very heavy rain that fell in November last caused a large number of young canes to fall and this materially affected the outturn of sugarcane.
	Bungoo ...	1,435'8 of which 322'3 are reserved forests.	14'75 jum land 9 ploughed.	Sugarcane ...		10	12		
	District Total	5,019	76'70		75				

PATNA DIVISION.

Patna	Sudder ...	617	457	Poppy ...	23	14	10		
	Bark ...	864	486	Sugarcane ...	115'33	16	16		
	Dinapore ...	145	118	Jute ...	15	10	8		
	Bohar ...	795	573	Tobacco ...	10	10	10		
Oye	Sudder ...	1,839	1,436	Poppy ...	167'20	15	10		Westerly wind which blew for five or six days caused some injury to the poppy crop.
	Aurangabad ...	1,946	747	Sugarcane ...	115'33	16	16		
	Jehanabad ...	697	588	Opium ...	15	10	8		
	Nawada ...	1,080	798	Sugarcane ...	10	10	16		
Shahabad	Arrah ...	915	778	Poppy ...	15	10	10		Failure of Christmas rain and insects in some places are said to have affected the poppy.
	Betia ...	626	560	Sugarcane ...	15	10	12		
	Samerah ...	1,463	980	Poppy ...	10	11	12		
	Shahbush ...	1,301	976	Tobacco ...	10	12	8		
Darbhanga	Sudder ...	1,213	939	Poppy ...	23	12	12		The sowings were performed under very favourable circumstances, but owing to want of rain afterwards the outturn of tobacco was reduced.
	Madhubani ...	1,340	1,100	Sugarcane ...	30'15	10	10		
	Tajpur ...	764	640	Tobacco ...	30	10	16		
	District Total	3,135	2,678	Poppy ...	15	12	12		

1	2	3	4	5	6	7	8	9	10
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Name of special crop.	Estimated area under special crop in square miles.	Estimated outturn in annas of current year's crop.	Outturn in annas of preceding year's crop.	Remarks by the Collector.	Remarks by the Director of Agriculture.
PATNA DIVISION—concluded.									
Muzaffarpore.	Muzaffarpore	1,816	800	Jute	90	16	13	The deficiency of the winter rains did some damage to these crops; otherwise the outturn would have been an average one.	This remark can not apply to jute, which is not grown to any extent in these districts.
	Hajipore	771	680	Sugarcane	12	12	12		
	Bitamarhee	1,014	770	Poppy	11	11	11		
				Jute	10	10	10		
				Tobacco	20	20	20		
District Total		3,601	2,930		214				
Saran	Sudder	808	630	Tobacco	1	1	1	Owing to excessive rainfall the sugarcane was much damaged.	
				Sugarcane	12	12	12		
				Poppy	12	12	12		
				Miscellaneous	20	20	20		
				Sugarcane	10	10	10		
District Total		2,922	2,120		153				
Champaran	Sudder	1,818	1,023	Poppy	60	10	11		
				Sugarcane	8	12	10		
				Poppy	24	15	11		
				Sugarcane	23	14	13		
District Total		3,631	2,223		115				

BHAGULPORE DIVISION.

Monghyr	Sudder	1,830	1,001	Sugarcane	1	16	16	There was total absence of rain during the rubber season, and hence the short outturn.	The spring sown indigo must have been affected by drought in March, April and the greater portion of May. The sugarcane was also injured to some extent in this way.
	Begumra	769	577	Poppy	3	16	14		
				Tobacco	7	14	10 to 12		
				Sugarcane	3	13	13 to 14		
				Poppy	25	16	16		
District Total		3,601	2,730		46				
Bhagulpoore	Sudder	800	630	Jute				Jute, tobacco, and sugarcane are grown here in very small quantities.	This year's crops suffered from total cessation of rain during the growth of these plants.
				Tobacco					
				Sugarcane					
				Poppy					
				Indigo					
District Total		4,366	3,041						
Furness	Sudder	1,873	1,029	Jute	160	16	16	The outturn of tobacco is poor owing to want of rain in Aushan and Poush (December and January) last, and the young plants of jute were also damaged by the floods of July and August last.	Sugarcane suffered from excessive rain in July and September last.
				Tobacco	22	12	12		
				Sugarcane	50	10	14		
				Jute	13	9	16		
				Sugarcane	1	12	12		
District Total		4,000	3,634		426				
Maidah	Whole district	1,902	1,230	Jute	63	16	12	The crops suffered as in the preceding year from want of timely rainfall.	
				Mulberry	100	16	16		
				Indigo	160	16	16		
				Tobacco	20	14	13		
				Sugarcane	8	14	12		
District Total		2,904	1,803		250				
Sonthal Purneah	Dumka Sudder	1,419	703	Sugarcane	10	8	10	Want of rain during the cold weather reduced the outturn.	
				Sugarcane	5	10	10		
				Sugarcane	3-25	13	16		
				Tobacco	25	8	10		
				Jute	99	12	8		
District Total		2,446	1,203		107				

1	2	3	4	5	6	7	8	9	10		
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in miles.	Name of special crop.	Estimated area under special crop in square miles.	Estimated outturn in annas of current year's crop.	Outturn in annas of preceding year's crop.	Remarks by the Collector.	Remarks by the Director of Agriculture.		
ORISSA DIVISION.											
Cuttack	Sudder	800	833	Tobacco	7	8	9	The diminished outturn is due to excessive rainfall in November last.			
	Banki	116	80	Jute	230	8	8				
	Kandrapur	1,054	883	Sugarcane	5	13	8				
	Jajpore	1,104	800	Sugarcane	2	16	13				
				Tobacco	330	9	10				
				Jute	14	16	13				
District Total		2,633	1,834		432			Excess of rainfall at the time of sowing and ploughing caused the short outturn this year.			
Balasore	Balasore	1,153	870	Jute	475	13	13			The crops suffered a little from want of rain in proper time.	
	Rhoddrick	808	730	Sugarcane	435	13	13				
				Jute	1700	13	13				
				Tobacco							
District Total		2,464	1,390		1920						
Purba	Sudder	1,530	750,300	Jute	5	11	10				
				Tobacco	6	8	7				
				Sugarcane	930	8	9				
				Castor	10	8	6				
				Cotton	2	8	8				
				Sugarcane	330	10	12				
District Total		2,320,300	1,154,940		8730						
CHOTA NAGPORE DIVISION.											
Rajnagarh	Head-quarters	4,573	2,800	Sugarcane							
				Jute	145	15					
				Tobacco							
				Cotton							
Girdih		2,406	1,200	Poppy	67	14	104				
				Sugarcane							
				Poppy							
				Tobacco							
District Total		7,021	3,673		223						
Lohardugga	Head-quarters	7,304	1,673	Tobacco		3 to 6	5				
				Sugarcane		5 to 10	4				
				Poppy	200	6	0				
				Poppy	230						
District Total		12,045	2,903		430						
Ranchbhoom	Govindpore	808	300	Jute	3	16	12				
				Tobacco	3	16	12				
				Sugarcane	14	6	8				
				Sugarcane	4	13	10				
				Cotton	12	12	12				
				Castor	14	9	12				
Sunder		2,344	1,308	Indigo	0	23	13				
				Tobacco	12	8	10				
	District Total	4,167	1,608		80						
Singbhoom	Kolha par-gunnah	1,906	873	Tobacco	3	16	12				
				Tobacco	3	16	12				
				Sugarcane	4	16	1				
				Sugarcane	1	16	1				
				Tobacco	1	16	0				
				Tobacco	4	16	0				
District Total		2,753	1,393		20						
GRAND TOTAL FOR THE WHOLE OF		1,32,933,718	6,78,61,000		9,12,740						

No. 109Mne., dated Calcutta, the 2nd May 1890.

The following report of the 12th quarterly inspection of the Dock Works at Kidderpore, which are being carried out by the Commissioners for making Improvements in the Port of Calcutta, is published for general information.

By order of the Lieutenant-Governor of Bengal,

W. B. BESTIC,

Under-Secy. to the Govt. of Bengal, P. W. Dept.

QUARTERLY INSPECTION OF THE KIDDERPORE DOCK WORKS.

No. 2722, dated Calcutta, the 25th April 1890.

From—W. CONNAN, Esq., and W. H. KING, Esq.,

To—The Secretary to the Government of Bengal, Public Works Department.

IN accordance with the orders of the Government of Bengal, memorandum No. 1042 (Marine) of the 22nd instant, we have the honour to report that the 12th quarterly inspection of the Kidderpore Dock Works was made on the 24th instant.

2. The usual tabular statement and the index plan showing the work done during the quarter ending 31st March 1890, and the total amount executed from the commencement, which have been prepared by the Superintending Engineer of the Dock Works, are already with Government.

3. The progress during the quarter is under noted.

PERMANENT WORKS.

Sixty-feet Lock.—This work is practically completed, hanging the riverside gates only remaining to be done.

Eighty-feet Entrance.—The gates are being erected, the work being otherwise almost finished.

Double Entrance to Dock No. 1.—This work is nearly completed, the gates being nearly all hung. Arrangements are being made for erecting the swing bridge.

Tidal Basin.—The unfinished portion of the north-east corner has been founded, and the short gap at the south-west corner will soon be taken in hand.

Graving Dock.—One and-a-half lakh cubic feet of brickwork was done during the quarter, and the work is, say, $\frac{2}{3}$ ths completed.

Government Graving Dock.—Very good progress has been made with this Dock during the quarter, half the area being founded, and 44 per cent. of the masonry done.

Dock No. 1.—The masonry of the Dock is nearly completed, 3 per cent. only remaining to be done. Over 36½ lakhs of excavation were taken out during the quarter.

Boat Canal.—Lift lock finished with the exception of the erection of gates and building revetments. Diamond Harbour Road bridge finished with the exception of the approaches. Tollygunge Circular Road bridge finished except the approaches and erection of main girders, the staging for which is ready and fitting begun. The siphon culvert under the canal is nearly done. The lock at Chetla is in progress, the excavation for the foundations being nearly completed. The supply sluice at Chetla has its platform built.

Subsidiary work.—The chimney shaft and accumulator tower of the Hydraulic Engine-house are approaching completion. The foundation for the Graving Dock Engine-house will shortly be begun, and the erection of the main Pumping Station machinery has commenced. The foundations of one cargo-shed have been got in.

Expenditure.—The total expenditure up to the end of the quarter under review is reported as Rs. 1,71,00,838-10-11, the expenditure on works being Rs. 1,45,24,906-7-10, and on land Rs. 25,77,932-3-1.

Sanitary.—The daily average number of workpeople employed during the quarter was 8,189, amongst whom there were 36 deaths, the death-rate being 17·96 per 1,000 per annum.

GENERAL REMARKS.

We are of opinion that good progress has been made with the works, and, so far as we have been able to judge from a quarterly inspection, the work done during the quarter is sound and substantial.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 3rd May 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
Burdwan Divn.	1 Burdwan May 3, '90	0-02	Weather—very hot; sometimes cloudy and windy. Ploughing going on in some parts of the district. Rain very much wanted. Prospects of sugarcane and <i>til</i> not good. Prices of common rice:— Srs. Sudder 15½ Culna 15 Cutwa 15½ Ranigunge 17½ } per rupee.
	Cutwa	0-01	
	2 Bankura .. 3, '90	0-03	
	3 Birbhum .. 3, '90	Nil	
	4 Midnapur .. 3, '90	Nil	
Hooghly Divn.	5 Hooghly .. 3, '90	0-34	Weather—hot. Boro crop being reaped. Sugarcane in want of rain. Water becoming scarce in wells and tanks. Prices of common rice:— Srs. Sudder 18 Gontal 20 Ghatal 18 Tamluk 16 } per rupee.
	Howrah .. 3, '90	0-09	
	6 24-Parganas May 6, '90	Nil	
	7 Nuddea .. 3, '90	Nil	
	Kushtha .. 1-14		
Presidency Divn.	8 Khoolna .. 3, '90	0-13	Weather—very hot; sometimes cloudy and windy. Ploughing going on in some parts of the district. Rain very much wanted. Prospects of sugarcane and <i>til</i> not good. Prices of common rice:— Srs. Sudder 15½ Culna 15 Cutwa 15½ Ranigunge 17½ } per rupee.
	Bagirhat .. 1-97		
	Satkhira .. 0-68		
	9 Jessore .. 3, '90	0-93	
	Jenidah .. 0-82		
Rajshahi Divn.	10 Moorshedabad .. 3, '90	Nil	Weather—hot with passing clouds. Land is being prepared for <i>dhadoi</i> sowings, but rain is much needed. Price of common rice rising, and averages 14 annas per rupee in the district.
	11 Dinagepur .. 3, '90	0-24	
	Thakurgaon .. 1-92		
	12 Rajshahi .. 3, '90	0-10	
	Natore .. 2-58		
Rajshahi Divn.	13 Rangpur .. 3, '90	0-09	Weather—hot and sometimes stormy. Boro is still being harvested; outturn in Bagirhat excellent and in Khulna fair. Lands are being ploughed for sowing <i>aus</i> paddy.
	Garhads .. 2-60		
	Karimganj .. 0-57		
	14 Bogra .. 3, '90	0-57	
	Sherpur .. 1-40		
Rajshahi Divn.	15 Pabna .. 3, '90	0-25	Weather—very hot and cloudy with occasional showers and high winds. More rain wanted to facilitate sowings of early rice, indigo, and jute, which are in progress.
	Nowshilla .. 1-25		
	16 Barjeeling .. 3, '90	1-43	
	17 Jalpigoree .. 3, '90	1-22	

No.	District and date of return.	Rainfall at Budder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—concluded.			
Eastern Districts.			
Dacca Div.	18 Dacca May 3, '90	1.05	Weather—hot and cloudy. Rain heavier at Naraingunge than elsewhere. No rain at Munshigunge. Harvesting of <i>boro</i> paddy nearly completed. Ploughing and sowing of rice and jute going on. <i>Cheena</i> and <i>kaon</i> thriving. Price of common rice 13 to 16 seers per rupee.
	19 Farreedpur „ 3, '90	1.00	Weather—seasonable. Sowing of <i>aus</i> and <i>amun</i> paddy and jute in progress. Prospects favourable. Sugarcane improving. Price of common rice varies from 13 to 16 seers per rupee.
	20 Backergunge „ 3, '90	0.95	Weather—hot and cloudy with occasional showers. State of crops fair. Common rice sells at 12 to 14 seers per rupee.
	21 Mymensingh „ 3, '90	0.32	Weather—hot and seasonable. Prospects good. Reaping of <i>boro</i> paddy and sowing of <i>aus</i> paddy and jute nearly completed. Price of coarse rice 13½ seers per rupee.
Chittagong Div.	22 Chittagong „ 3, '90	1.05	Weather—seasonable. Sowing of <i>aus</i> paddy in progress. State of chilly crop good. Prices of rice steady.
	23 Nonkholly „ 3, '90	0.22	Weather—days hot and sultry, nights generally cool. <i>Aus</i> being sown. More than half the chilly and pulse crops gathered. Price of rice stationary.
	24 Tipperah „ 3, '90	0.90	Weather—seasonable. Outturn of <i>boro</i> paddy estimated at 16 annas. <i>Aus</i> , <i>amun</i> , <i>tij</i> , jute, and sugarcane doing well. Prospects much improved by late rain.
	25 Chittagong Hill Tracts. „ 2, '90	0.11	Weather—sultry, with passing clouds throughout the week except the last day, which was cloudy with occasional sunshine. <i>Jam</i> burning still continues, but greatly retarded by rain of the previous week. Gathering of tobacco and chillies still continues. Sugarcane doing well. Common rice is being sold at 13 seers 6½ chittacks per rupee.
BHAR.			
	Hill Tipperah	...	Report not received.
Patna Div.	26 Patna „ 3, '90	Nil	Weather—hot and dry. Threshing and winnowing of <i>rubbi</i> crops almost finished. <i>Cheena</i> promising well. Prices of food-grains almost stationary with a tendency to rise.
	27 Gya „ 3, '90	Nil	Weather—hot. <i>Cheena</i> and sugarcane doing well. Threshing of <i>rubbi</i> crops and opium weighments finished.
	28 Shahabad „ 3, '90	Nil	Weather—seasonable. Threshing of <i>rubbi</i> crops nearly over. Standing crops doing well. Prices stationary.
	29 Buxar „ 3, '90	0.12	
Bhagalpur Div.	30 Durbhanga „ 3, '90	Nil	Weather—clear and hot. Prospects of <i>mung</i> and paddy continue favourable. Want of more rain retards progress of cultivation for <i>bhadosi</i> crops. Common rice selling at 13½ seers per rupee.
	31 Munger „ 3, '90	0.04	Weather—hot. Winds chiefly from the east. Slight rain in the Sitamarhi and Sudder subdivisions. Rain much wanted. Paddy, <i>mung</i> , <i>cheena</i> , <i>sawa</i> , and <i>kodo</i> still being sown.
	32 Saran „ 3, '90	0.20	Weather—hot. Occasional clouds. Wind variable. Indigo indifferent except in the north and west of the district. <i>Cheena</i> good.
	33 Champaran „ 3, '90	Nil	Weather—hot. West and east winds blowing alternately; cloudy at times. Lands are being dug and ploughed for paddy and other crops. <i>Kodo</i> is being sown. <i>Cheena</i> growing well. Rain wanted. Opium weighment nearly finished.
Bhagalpur Div.	34 Monghyr „ 3, '90	Nil	Weather—hot and dry. Easterly wind since last two days. Rain wanted throughout the district. Lands are being ploughed for <i>bhadosi</i> crops in the Begusarai subdivision. Prices stationary.
	35 Bhagalpur „ 3, '90	Nil	Weather—very hot and close with east wind. Mango crop doing well. Sugarcane and <i>cheena</i> promising. Prospects of indigo good. Rain much wanted for <i>bhadosi</i> ploughings.
	36 Purnea „ 3, '90	Nil	Weather—generally easterly winds prevailing; nights cool. <i>Rubbi</i> outturn fair. <i>Bhadosi</i> and jute being sown. Prospects of crops fair as yet. Rain wanted.
	37 Kishengunge „ 3, '90	0.63	
Bhagalpur Div.	38 Maldah „ 3, '90	0.34	Weather—mornings cool and cloudy, days very hot; high wind with slight rain yesterday (2nd). Harvesting of <i>boro</i> paddy continues. This crop has been damaged to some extent by hailstones in thana Kaliachak. <i>Bhadosi</i> and winter rice crops are being sown; rain is much wanted for these crops. State of mulberry and indigo continues fair. Leaves of mulberry are being cut in some places. Common rice selling at an average of 14½ seers per rupee.
	39 Sonthal Pergas. Pakour „ 3, '90	Nil	Weather—at head-quarters cooler than usual with east wind. Rain wanted for sugarcane, and in some parts for agricultural operations.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIV.	38 Cuttack	...	Report not received.
	39 Pooree May 2, '90	Nil	Weather—hot. Lands are being ploughed for the ensuing <i>carad</i> crop. <i>Dalms</i> and <i>mung</i> crops are being harvested. Prices of food-grains stationary.
	40 Balasore „ 3, '90	Nil	Weather—hot and dry. Rain wanted to complete cultivation. Average number of coolies on relief works 128.
CHOTA NAGPORE.			
<i>South-West Frontier Agency.</i>			
CHOTA NAGPORE DIV.	41 Hazaribagh May 2, '90	Nil	Weather—seasonable: very hot. Sugarcane doing well. Mango promising. No other crops.
	42 Lohardugga Palamow (up to 29th April). „ 3, '90	Nil 0.18	Weather—seasonable and hot. Lands are being ploughed. Mango doing well. Prices steady.
	43 Singbhoom May 2, '90	0.04	Weather—hot and close. Sugarcane is being planted. <i>Melms</i> and <i>mungo</i> doing well. Prices stationary.
	44 Manbhoom „ 3, '90	0.01	Weather—hot. No crop on the ground except sugarcane, which is doing well. Rice selling at from 18 to 26 annas per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 6th May, 1890.P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (RETAIL) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE
HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL
DURING THE FORTNIGHT ENDING THE
30TH APRIL 1890.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLU. (Sorghum Vulgare.)					
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.			
BENGAL.																			
Western Districts.																			
1	Burdwan	15 4	14 8	18 2	...	...	...	12 12	13 8	12 6	15 9	16 14	15 3	...	...	...
2	Bankoora	15 0	15 0	14 0	20 0	18 0	18 0	17 8	17 8	15 0	19 0	20 0	17 8	...	...	...
3	Beerbhoom*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	Midnapore	14 0	14 0	10 0	15 0	17 8	...	14 0	14 0	12 0	17 0	17 8	16 8	...	...	...
5	Hooghly*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Howrah	...	...	...	...	...	...	11 4	11 8	10 0	14 8	15 0	13 8	...	...	...
Central Districts.																			
	Calcutta	13 4	13 5	12 14	17 8	17 8	17 2	8 11	8 14	9 8	13 11	13 9	13 1	21 7	20 0	16 10			
6	24-Pergunnahs	14 8	14 8	13 6	20 0	20 0	16 0	8 0	8 0	8 0	14 8	15 0	13 8	...	...	...
7	Nuddes	15 0	15 0	14 15	21 0	19 0	20 0	11 14	12 6	12 4	13 5	12 10	16 0	...	...	...
8	Khoolna	...	...	...	...	...	...	13 0	12 0	12 0	15 0	14 8	13 0	...	...	...
9	Jessore	13 0	13 0	11 0	...	...	...	9 0	10 8	11 0	15 0	14 8	15 0	...	...	...
10	Moorshedabad*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	Dinapore	19 4	19 4	12 0	14 8	...	...	15 0	13 8	13 0	18 0	18 0	15 8	...	...	...
12	Rajahahye	17 4	16 8	16 8	24 0	24 0	24 0	12 0	12 12	12 0	13 8	14 4	13 14	...	...	...
13	Rangpore	13 5	13 5	14 8	...	...	...	9 6	9 7	10 8	13 5	13 5	16 0	...	...	...
14	Bogra	13 8	13 8	15 0	...	...	...	12 0	12 0	13 8	16 8	16 8	18 12	...	...	...
15	Pubna	18 12	18 0	16 14	...	...	...	6 12	6 14	7 8	14 4	15 0	15 12	...	...	...
16	Darjeeling	9 0	9 0	10 0	10 0	10 0	6 0	6 0	6 0	6 0	12 0	12 0	12 0	...	...	...
17	Julpigore*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Eastern Districts.																			
18	Dacca	13 0	13 0	15 8	16 0	16 0	26 0	14 0	14 0	13 4	15 0	15 0	15 4	...	...	...
19	Furzedpore	14 0	14 0	20 0	18 0	20 0	25 0	9 0	8 0	9 0	13 0	13 0	12 0	...	...	...
20	Backergunge	...	...	...	...	...	...	12 8	12 8	10 8	14 0	14 0	12 0	...	...	...
21	Mymensingh	11 8	11 8	10 8	...	...	...	10 0	10 0	13 0	13 8	13 8	18 0	...	...	...

* Return not received.

A In subdivisions retail prices of salt per ruppee are:—Guria 10 seers, Cutwa 10 seers 6 chittacks, and Haneergunge 10 seers.

B In subdivisions retail prices of salt per ruppee are:—Guria 5 seers, Tumlaok 8 seers, and Ghatal 10 seers.

B1 In subdivisions retail prices of salt per ruppee are:—Barnet 9 seers, Barhat 9 seers, Diamond Harbour (at Magrahat) 10 seers, Gun-dag. 10 seers, and Barrackpore 9 seers 2 chittacks.

C In subdivisions retail prices of salt per ruppee are:—Koushton 10 seers, Meherpore 9 seers, Choudanga 9 seers, and Nanaghat 9 seers 2 chittacks.

D At Magrahat retail prices of salt 8 seers per ruppee.

E In subdivisions retail prices of salt per ruppee are:—Jhenida 9 seers, Magura 9 seers, Narail 9 seers, and Bongong 10 seers.

F At Backergunge retail prices of salt 8 seers per ruppee.

Head-quarter Station Bazars of the Districts of Bengal on the 30th April 1890.

												WHOLESALE PRICES PER MAUND OF 40 SEERS.						DISTRICTS.
INDIAN-CORN OR MAIZE (Zea Mays.)			ARHAR OR THUR, CADJAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.						
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.				
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.				
...	20 0	20 0	18 0	100 0	100 0	107 0	A 10 0	10 0	9 14	3 11 3	3 11 3	3 11 6	Burdwan.			
30 0	30 0	21 0	21 4	20 8	17 8	280 0	280 0	280 0	10 0	10 0	10 0	3 15 0	3 15 0	3 15 0	Bankoora.			
...	Beerbhoom.			
...	14 0	15 0	14 0	160 0	160 0	160 0	B 10 2	10 3	10 4	3 14 6	3 14 0	3 14 0	Midnapore			
...	Hooghly.			
...	18 4	18 4	13 0	100 0	100 0	100 0	10 0	10 0	10 8	3 12 0	3 12 0	3 10 6	Howrah.			
Central Districts.																		
18 2	18 0	...	16 11	16 18	15 10	100 0	100 0	99 0	10 5	10 5	10 5	3 9 3	3 9 5	3 9 5	Calcutta.			
...	17 0	18 0	15 0	100 0	100 0	100 0	R 10 4	10 4	10 8	3 9 6	3 9 0	3 8 9	24-Pergunnahs.			
...	19 0	17 12	16 0	...	...	...	C 9 13	9 13	9 2	3 14 0	3 13 0	3 14 0	Nudda.		
...	160 0	160 0	160 0	D 9 8	8 0	9 0	4 4 0	4 8 0	4 0 0	Khoolna.			
...	18 0	18 0	21 8	100 0	100 0	160 0	E 9 2	9 2	9 0	4 0 0	4 0 0	4 0 0	Jessore.			
...	Moorshedabad.			
...	15 8	15 8	11 0	160 0	160 0	160 0	F 9 8	9 8	9 8	4 0 0	4 0 0	3 15 0	Dinapore.			
...	18 8	17 5	20 4	240 0	240 0	240 0	G 9 0	9 0	8 13	4 2 8	4 2 8	4 5 4	Rajshahye.			
...	0 10	9 7	13 0	100 0	100 0	120 0	H 9 6	8 14	9 6	4 8 0	4 8 0	4 4 0	Rungpore.			
...	90 0	90 0	90 0	...	9 0	9 0	4 4 0	4 4 0	4 2 8	Bogra.			
...	18 12	18 12	21 0	200 0	200 0	200 0	I 8 11	8 11	9 2	4 0 0	4 0 0	4 1 0	Pubna.			
13 0	13 0	18 0	9 0	8 0	...	120 0	120 0	120 0	J 7 0	7 0	7 0	5 0 0	5 0 0	5 0 0	Darjeeling.			
...	Julpigore.			
Eastern Districts.																		
...	13 0	14 0	16 0	160 0	160 0	120 0	K 9 8	9 8	10 0	4 2 0	4 2 0	3 14 0	Dacca.			
15 0	15 0	...	11 0	11 0	14 0	120 0	120 0	120 0	8 8	8 8	9 0	4 12 0	4 12 0	3 15 6	Furroodpore.			
...	12 4	11 4	12 8	120 0	120 0	120 0	L 10 0	10 0	18 14	13 15 0	4 0 0	4 0 0	Backergunge.			
...	10 0	10 0	16 0	...	...	...	M 9 8	9 8	10 0	4 1 6	4 3 0	3 15 0	Mymensingh.		

- G In subdivisions retail prices of salt per rupee are:—Natore 9 seers and Nylgong 9 seers 9 chittacks.
H In subdivisions retail prices of salt per rupee are:—Nilphamari 9 seers, Chitanda 8 seers, and Kurigram 9 seers.
I At Seragunge retail price of salt 9 seers per rupee.
J At Nilgong retail price of salt 8 seers per rupee.
K In subdivisions retail prices of salt per rupee are:—Manikgungo 8 seers, Moonsheogungo 8 seers 14 chittacks, and Narain-
gungo 10 seers.
L In subdivisions retail prices of salt per rupee are:—Patunkhali 9 seers, Perozopore 9 seers, and Bhola 8 seers.
M In subdivisions retail prices of salt per rupee are:—Kishoregungo 8 seers, Jamalpore 10 seers, Sherpore 8 seers, and Notrokhona
8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLU. (Sorghum Vulgare.)					
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.			
Eastern Districts—concluded.																			
22	Chittagong ...	11 0	11 0	11 0	...	...	...	12 8	12 8	11 0	16 0	16 0	13 0	...	...	...
23	Noakholly* ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	Tipperah ...	14 9½	14 9½	12 8	...	...	...	10 0	10 0	13 8	13 5	13 5	14 8	...	...	...
25	Chittagong Hill Tracts.	...	...	...	...	...	...	12 0	12 7	10 0	13 5	13 14	11 6	...	...	...
	Hill Tipperah...	6 0	6 0	6 0	...	...	...	8 0	8 0	8 0	14 0	14 0	16 0	...	...	...
BEHAR.																			
26	Patna ...	{ 17 8 15 8 17 8	{ Red. White. 15 8	{ ... 15 0 15 8	24 8	25 0	20 8	10 0	10 8	10 0	16 14	17 8	18 8	18 0	19 0	20 0			
27	Gya ...	17 8	17 8	15 8	24 0	24 0	21 0	11 8	11 8	8 8	16 0	16 0	12 8	...	...	...
28	Shahabad ...	15 0	15 0	14 8	22 0	22 0	20 0	8 0	8 0	8 8	14 0	15 0	13 8	22 0	20 0	20 0			
29	Durbhunga* ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	Moufferpore ...	16 0	16 0	12 8	25 0	24 0	18 0	9 0	9 0	9 0	16 0	16 0	11 0	...	...	...
31	Barua ...	15 8	15 4	14 8	21 8	21 8	20 8	8 8	8 8	8 8	13 8	15 6	12 14	...	...	...
32	Champaran ...	16 0	16 0	12 0	28 0	28 0	21 0	8 0	8 0	7 0	16 0	16 0	11 8	...	...	...
33	Monghyr ...	17 13	17 13	16 13	28 1	28 1	22 0	15 12	15 12	12 9	17 13	17 13	18 2	...	...	...
34	Bhagulpore ...	17 11	17 11	16 6	24 0	23 5	21 7	{ Old. Now. 18 14	{ 10 1 10 1 13 14	{ 12 10 12 10 13 14	{ Old. Now. 17 0	{ 12 10 12 10 17 11	13 4	...	...	...
35	Purneah ...	18 0	16 0	14 0	...	...	...	17 0	17 0	18 0	19 9	18 0	15 0	...	...	...
36	Maidah ...	18 0	18 0	16 0	...	...	...	10 0	8 0	10 0	13 0	15 0	15 4	...	...	...
37	Benthal Pergba. ...	13 0	13 0	18 0	...	...	...	13 0	13 0	13 0	16 0	16 0	16 0	...	...	...
ORISSA																			
38	Cuttack ...	11 13	14 7	14 7	...	...	...	10 8	10 8	10 8	18 6	18 6	14 7	...	...	...
39	Pooree ...	13 2	11 13	13 2	...	...	...	17 1	14 7	11 13	21 0	21 0	15 12	...	...	...
40	Balasore ...	15 0	15 0	17 0	18 0	18 0	18 0	18 0	18 0	12 0	19 0	20 0	17 0	...	...	...
CHOTA NAGPORE.																			
South-West Frontier Agency.																			
41	Hasaribagh ...	13 8	14 0	14 8	13 0	13 0	18 0	10 0	10 0	8 0	17 0	17 0	16 0	...	...	...
42	Lohardugga ...	{ 14 0 8 (old) White. 9 (new)	{ Red. 14 0 9 0	{ 13 0 13 0 ...	18 0	28 0	16 0	14 0	14 0	13 0	{ Middling 0 16 18 0	{ 0 16 19 0 0 1	{ 15 0 15 0 ...	...	...	...
43	Singbhoom ...	10 0	10 0	14 0	10 0	10 0	16 0	16 0	16 0	14 0	20 0	20 0	22 0	...	...	...
44	Manbhoom ...	18 0	18 5	13 0	20 0	30 0	20 0	14 0	14 8	13 0	22 0	22 0	18 0	...	...	...

* Return not received.

† Price of common rice at Jajpore 22 seers 5 chittacks and at Kendrapara 23 seers 10 chittacks per rupee.

N At Cor's Bazar retail price of salt 8 seers per rupee.

O In subdivisions retail prices of salt per rupee are :—Buxar 10½ seers, Samson 10 seers, and Bhabuah 9 seers.

P In subdivisions retail prices of salt per rupee are :—Hajipore 9½ seers and Sitamarhi 10 seers.

CALCUTTA,
The 6th May, 1890.

LOWAR OR CHOLEM. (<i>Sorghum Vulgare</i> .)	BAJHA OR GUMRO. (<i>Lemnium typochol- eum</i> .)
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974a

Present return.	Next preceding re- turn.	Corresponding re- turn of last year.
Present return.	Next preceding re- turn.	Corresponding re- turn of last year.

B.	Ch. 8.	Ch. 8.	B.	Ch. 8.	Ch. 8.	B.	Ch. 8.
12	4	12	4	13	0		
13	5	13	5	16	0		
13	0	13	0	10	0		

18	0	25	0	12	0	23	0	24	0	20	0
15	0	16	0	11	0	20	0	20	0	19	0
000		000		000		05	0	23	0	20	8
000		000		000		000		000		000	
000		000		000		20	0	21	0	19	0
16	0	16	0	11	0	20	12	21	8	20	8
000		000		000		26	0	25	0	17	8
16	13	23	1	25	14	21	10				
000		000		000		21	7	20	3	20	3
000		000		000		22	0	20	0	16	0
000		000		000		23	0	22	0	24	0
000		000		000		17	0	17	0	17	0

15	12	15	12	21	0
14	7	14	7	15	12
14	0	14	0	13	0

000	001	002	16 0	17 0	14 8
003	004	005	12 12	15 8	13 0
006	007	008	10 0	10 0	12 0
009	010	011	17 0	18 0	16 8

8720

BAJRA OR COMBU. (<i>Pennisetum typho-</i> <i>idum.</i>)	MARUA OR RAST. (<i>Echinochloa</i> <i>crispata.</i>)
---	--

Present return.	Next preceding return.	Corresponding return of last year.
Present return.	Next preceding return.	Corresponding return of last year.

[illegible][illegible][illegible]

970a

BEERS OF 80 TOLAHIS.

KANGONI OR KARUR, ITALIAN MILLET. (<i>Setaria italica</i> .)		GRAM, CHANA, CHHOLA, KADALAY OR BUNAGA. (<i>Cicer arietinum</i> .)	
Present return.	Next preceding turn.	Present return.	Next preceding turn.
Corresponding return of last year.		Corresponding return of last year.	

S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.
						19	0	19	0
						18	0	18	0
						15	0	16	0
						17	12	17	8
						19	0	19	0

10 0	10 5	17 12	16 16	17 10	16 13
6 0	6 0	12 0	19 0	20 0	17 8
000	000	000	20 8	21 5	20 0
000	000	000	13 0	13 0	14 0
000	000	000	16 0	16 0	20 0
000	000	000	000	000	000
000	000	000	16 0	16 0	13 0
000	000	000	19 8	21 0	21 0
000	000	000	12 4	12 4	10 5
000	000	000	15 0	15 0	19 8
000	000	000	13 12	13 0	22 0
000	000	000	10 0	11 0	9 0
000	000	000	000	000	000

001	001	000	14	0	13	0	13	0
001	000	000	15	0	16	0	22	0
001	000	000	13	12	16	4	17	0
001	000	000	13	4	13	0	16	0

9706

BAJRA OR CUMBU. (<i>Pennisetum typho-</i> <i>dium.</i>)			MARUA OR RAGI. (<i>Echinochloa Crusgana.</i>)		
Present return.	Next preceding re- turn.	Corresponding re- turn of last year.	Present return.	Next preceding re- turn.	Corresponding re- turn of last year.

[illegible][illegible]

2.2	2.2	2.2	2.2	2.2	2.2
2.2	2.2	2.2	2.2	2.2	2.2
2.2	2.2	2.2	2.2	2.2	2.2
2.2	2.2	2.2	2.2	2.2	2.2

27	0	28	0	21	5
No	sales	27	0		

OF 40 SEERS.

MARUA OR RAOL (<i>Eleusine Corocana.</i>)			KANGNIOR KAKU ITALIAN MILLET. (<i>Seteria Italica.</i>)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R.A.P.	R.A.P.	R.A.P.	R.A.P.	R.A.P.	R.A.P.
...	3 8 03	5 72	0 0
...
...
...
...
...
160	150	...	2 2 01	15 63	0 0
...
...
...

9746

972a

Station Basars of the Districts of Bengal on the 30th April 1890—(concluded).

															WHOLESALE PRICES PER MAUND OF 40 SEERS.			DISTRICTS.
INDIAN-CORN OR MAIZE. (Zea Mays.)			ARHAR OR THUL. CAJIAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.						
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.				
Eastern Districts—concluded.																		
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.			
...	...	...	...	...	...	110	0 110	0 100	0 10	0	10 0	9 0	3 12	0 3 12	0 4 0 0	Chittagong.	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Noakholly.	
...	...	...	8 6	8 6	9 0	...	...	...	9 11	9 8	8 0	4 2	0 4 8	0 4 6	0	Tipperah.	
...	...	...	...	...	...	320	0 320	0 320	0 8	0	8 0	8 0	4 8	0 4 8	0 4 8	0	Chittagong Hill Tracts.
...	...	...	8 0	8 0	8 0	...	...	...	8 0	8 0	8 0	4 6	0 4 6	0 4 6	0	Hill Tipperah.	
BEHAR.																		
...	22 0	19 0	23 0	24 0	21 0	180	0 180	0 130	0 10	0	10 0	10 0	3 14	0 3 18	0 3 12	6	Patna.	
...	...	...	21 0	21 0	18 4	160	0 160	0 200	0 9	2	9 2	9 2	4 2	0 4 2	0 4 2	0	Gya.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Shahabad.
...	...	...	20 0	20 0	18 4	160	0 160	0 160	0 10	0	10 0	10 0	3 15	0 3 15	0 4 0	0	Durbhunga.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Mosufferpore.
21 0	20 0	16 0	18 0	19 0	20 0	160	0 160	0 160	0 10	0	10 0	10 0	4 0	0 3 12	0 3 12	0	Saran.	
20 0	20 8	16 8	20 0	20 8	21 0	160	0 160	0 160	0 9	8	9 8	10 0	4 1	0 4 1	0 3 15	0	Champaran.	
22 8	24 0	17 0	23 0	...	21 0	160	0 160	0 160	0 10	0	10 0	9 8	3 14	0 3 15	0 4 0	0	Monghyr.	
21 0	21 0	21 10	23 1	23 1	18 10	147	0 147	0 147	0 9	12	10 4	9 8	3 14	6 3 14	9 4 0	0	Rhagulpore.	
22 11	22 11	17 10	20 8	21 7	20 8	176	12 176	12 176	12 10	1	10 1	10 1	3 15	6 3 15	0 4 0	0	Purneah.	
...	...	...	16 0	16 0	16 0	130	0 130	0 200	0 9	0	8 0	9 0	4 5	0 4 8	0 4 5	0	Maldah.
...	...	...	...	...	...	160	0 160	0 180	0 9	0	9 0	9 8	4 0	0 4 0	0 4 0	0	Bonthal Pergas.
21 0	24 0	18 0	20 0	20 0	22 0	200	0 200	0 200	0 9	0	9 0	9 0	4 0	0 4 0	0 4 3	0	ORISSA.	
...	...	...	19 11	19 11	19 11	80	0 80	0 80	0 8	0	11 0	11 0	4 7	0 3 12	0 3 12	0	Cuttack.
...	...	...	18 2	15 12	18 2	80	0 80	0 80	0 11	13	11 13	10 8	3 6	0 3 6	0 3 8	0	Pooree.
...	...	...	...	...	...	160	0 160	0 160	0 10	0	10 0	10 0	3 14	0 3 14	0 3 15	0	Balasore.
CHOTA NAGPORE.																		
South-West Frontier Agency																		
22 0	22 0	16 0	23 0	21 0	118 8	320	0 320	0 320	0 8	0	8 0	8 8	4 4	0 4 4	0 4 6	0	Hazaribagh.	
30 0	34 0	...	Small. 27 0 Big. 18 0	28 0 16 0 18 8	14 12 18 8	120	0 120	0 140	0 8	8	8 12	8 0	4 10	0 4 8	0 4 14	0	Lohardugga.	
12 0	12 0	22 0	14 0	14 0	16 0	240	0 240	0 200	0 8	8	8 8	7 0	4 12	0 4 12	0 5 8	0	Singbhoom.	
32 0	29 0	26 0	19 0	21 0	18 0	300	0 300	0 200	0 9	2	9 2	9 0	4 4	0 4 0	0 4 4	0	Manbhoom.	

Q In subdivisions retail prices of salt per rupes are :—Begusarai 9½ seers and Jamui 9 seers.
 R In subdivisions retail prices of salt per rupes are :—Kishungunge 8 seers and Arraroah (at Ranigunge) 10 seers.
 S At Bhudruk retail price of salt 8 seers per rupes.
 T At Govindpore retail price of salt 9 seers per rupes.

Published for general information.

P. NOLAN,
 Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARKS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 12 3	2 11 9	2 13 7	2 0 3	2 0 3	2 1 2	4 5 2	4 4 0	4 0 3	2 10 8	2 11 0	2 13 2
2	Berajunge ...	2 8 0	2 8 0	2 5 0	—	—	—	4 14 0	4 14 0	3 10 0	3 0 0	3 1 0	2 9 0
3	Dacca ...	3 0 0	3 0 0	2 8 9	2 7 0	2 7 0	1 8 0	2 13 0	2 13 0	3 0 0	2 10 0	2 10 0	2 10 0
4	Narainjunge ...	—	—	—	—	—	—	3 2 0	3 0 0	3 0 0	3 0 0	2 12 0	2 22 0
5	Chittagong ...	3 8 0	3 8 0	3 9 0	—	—	—	3 0 0	3 0 0	3 8 0	2 8 0	2 8 0	3 0 0
6	Patna ...	2 4 0	2 5 3	—	1 9 0	1 9 3	1 15 6	3 15 0	3 12 0	3 14 0	2 5 0	2 4 0	2 1 0
		2 8 0	2 9 0	2 13 0	—	—	—	—	—	—	—	—	—
7	Balsore ...	2 3 0	2 3 0	2 4 0	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 4 0	2 0 0	1 14 0	2 1 3
8	Pooree ...	—	—	—	—	—	—	—	—	—	1 14 0	1 14 0	2 4 0
9	Cuttack ...	3 4 0	2 10 0	2 10 0	—	—	—	3 10 0	3 10 0	3 10 0	2 2 0	2 2 0	2 10 0

CALCUTTA,
The 6th May, 1890.

in the undermentioned *Marts* of Bengal on the 30th April, 1890.

GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (<i>Cicer Arisianum</i> .)			KUMAR-GHUN OR MAHER. (<i>See Mayo</i> .)			ARHAN OR THUR, CADJAN PEA. (<i>Cajanus indicus</i> .)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
2 1 0	2 0 0	2 2 3	1 15 6	1 14 2	...	2 2 2	2 1 5	2 5 1	0 5 2	0 5 3	0 5 9	3 3 2	3 2 5	3 2 5	Calcutta.
2 9 0	2 9 0	3 2 0	...	...	...	...	...	...	...	...	...	3 14 0	3 14 0	3 13 6	Barrabunge.
2 12 0	3 0 0	3 0 0	...	...	...	3 9 0	2 12 0	2 8 0	0 4 0	0 4 0	0 5 0	4 2 0	4 2 0	3 14 0	Dacca.
3 2 0	2 12 0	3 0 0	...	...	...	3 0 0	3 0 0	3 2 0	0 8 0	0 8 0	0 8 0	3 12 0	3 12 0	3 12 0	Kanaijunge.
3 2 0	3 2 0	3 0 0	...	...	...	...	...	...	2 5 4	0 6 0	0 7 0	3 12 0	3 12 0	4 4 0	Chittagong.
1 11 0	1 10 2	1 15 3	...	1 12 9	2 1 9	1 12 0	1 10 2	1 14 9	0 5 0	0 5 3	0 5 0	3 14 0	3 15 0	3 12 6	Patna.
2 12 0	2 12 0	2 14 0	...	...	...	...	...	...	0 4 0	0 4 0	0 4 0	3 14 0	3 14 0	3 15 0	Bahara.
...	...	...	...	...	...	...	...	...	...	...	...	3 5 0	3 5 0	3 5 0	Bomra.
2 5 0	2 5 0	1 11 0	...	...	...	3 0 0	2 0 0	3 0 0	0 5 0	0 5 0	0 5 0	4 7 0	3 12 0	3 12 0	Cuttack.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.	DISTRICT.	Representative station.	STATION OBSERVATIONS.														
			AIR PRESSURE.			WIND.		TEMPERATURE.						Mean daily temperature of week.	Mean minimum temperature of week.		
			Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.				
ORISSA.	Pooree	Pooree	29.775	29.787	—	SW	11.2	82.7	26th April	66.8	27th April	91.1	78.4	84.8	—		
	Gopalpore	Gopalpore	29.765	29.787	—	SW	11.2	81.2	28th April	78.8	27th April	88.4	81.1	84.9	+2.5		
	False Point	False Point	29.770	29.781	—	SW	9.6	81.9	27th April	78.9	27th April	89.9	78.9	84.8	—		
	Outlook	Outlook	29.714	29.706	+0.07	SW	9.6	113.4	26th April	72.3	26th April	100.1	79.1	88.1	+0.9		
	Balnore	Balnore	29.712	29.771	—	SW	10.7	107.5	26th April	70.9	26th April	100.3	76.6	88.3	+3.3		
	South-West Midnapore	Sanger Island	29.734	29.781	—	SW	10.8	96.7	26th April	73.0	26th April	98.6	79.6	88.3	+0.1		
	South 24-Pargunnahs	Midnapore	29.621	29.773	—	S	114.9	109.4	2nd May	70.3	26th April	102.4	78.1	89.3	+1.1		
	Midnapore	Midnapore	29.621	29.773	—	S	114.9	109.4	2nd May	70.3	26th April	102.4	78.1	89.3	+1.1		
	24-Pargunnahs	Calcutta	29.713	29.775	—	SW	9.8	100.9	26th April	67.3	26th April	96.7	78.6	88.1	+0.9		
	Howrah	Howrah	29.681	29.761	—	Variable	6.3	104.2	26th April	67.4	26th April	98.6	78.1	87.4	—		
SOUTH-WEST BENGAL.	Burdwan	Burdwan	29.681	29.761	—	Variable	6.3	104.2	26th April	67.4	26th April	98.6	78.1	87.4	—		
	Bankura	Bankura	29.682	29.763	—	Calim	9.9	105.5	26th April	66.3	26th April	98.3	76.7	87.3	?		
	Bartholomew	Ranagunge	29.684	29.789	+0.14	South-westerly.	12.1	105.5	26th April	66.3	26th April	100.4	77.3	88.9	+0.3		
	West Burdwan	Burdwan	29.683	29.761	—	S	10.4	101.7	26th April	66.3	26th April	98.6	78.9	88.3	—		
	Meerutabad	Burdwan	29.683	29.761	—	S	10.4	101.7	26th April	66.3	26th April	98.6	78.9	88.3	—		
	Nadua	Krishnagar	29.719	29.787	—	SE	16.7	102.3	26th April & 1st May	66.3	26th April	99.4	78.2	87.8	+1.7		
	Jessore	Jessore	29.739	29.773	—	Variable	7.1	89.9	1st May	66.3	26th April	98.6	78.7	88.6	+0.3		
	Khoulia	Jessore	29.719	29.773	—	Variable	7.1	89.9	1st May	66.3	26th April	98.6	78.7	88.6	+0.3		
	Chittagong	Chittagong	29.716	29.786	—	SE	9.7	91.1	27th April	73.3	26th April	98.7	78.3	88.6	+1.7		
	Chittagong Hill Tracts	Dumagiri	29.774	29.786	—	Southerly & calm	8.8	94.3	26th April, 1st May.	69.4	26th April	91.2	78.9	88.3	+1.7		
EAST BENGAL.	Backergunge	Barisal	29.774	29.786	—	Southerly & calm	8.8	94.3	26th April, 1st May.	69.4	26th April	91.2	78.9	88.3	+1.7		
	Noakhali	Noakhali	29.767	29.811	—	S	12.3	96.9	2nd May	66.3	26th April	99.4	76.7	88.1	+0.3		
	Farrakka	Farrakka	29.764	29.794	—	South-easterly.	12.9	94.5	1st May	66.3	26th April	91.1	78.6	88.3	+0.3		
	Dacca	Dacca	29.765	29.798	—	South-easterly.	12.9	96.9	1st May	66.3	26th April	91.2	78.9	88.1	—		
	Comilla	Comilla	29.735	29.781	—	SW	11.4	94.3	26th April & 1st May	66.3	26th April	98.3	78.9	88.3	—		
	Mymensingh	Mymensingh	29.734	29.783	—	SE	11.3	91.7	26th April	66.1	26th April	99.4	78.6	81.1	+1.9		
	Sogra	Sogra	29.766	29.784	—	Easterly	9.4	94.3	26th April	66.1	26th April	91.1	71.9	81.3	—		
	Patna	Soragunge	29.781	29.778	—	Variable	13.7	93.1	26th April	64.9	26th April	98.3	78.0	84.2	0		
	Rajshahi	Rampore Beach.	29.780	29.770	—	Variable	10.9	94.4	26th April	66.7	26th April	98.6	74.0	83.3	+0.1		
	Maldah	Maldah	29.692	29.744	—	SE	8.2	94.3	2nd May	64.9	26th April	94.3	73.1	83.3	—		
NORTH BENGAL.	Dinapore	Dinapore	29.690	29.788	—	North-easterly.	13.4	96.1	26th April	65.3	26th April	90.6	71.6	81.9	+0.7		
	Rangpur	Rangpur	29.673	29.780	—	E	10.1	94.3	2nd May	64.7	26th April	90.7	69.6	79.7	+2.1		
	Jalpaiguri	Jalpaiguri	29.673	29.783	—	?	10.5	91.9	2nd May	?	?	87.6	?	?	?		
	Conch Mehar	Jalpaiguri	29.673	29.783	—	?	10.5	91.9	2nd May	?	?	87.6	?	?	?		
	Darjeeling Hill Tracts	Darjeeling	29.681	—	—	Variable	12.4	94.6	26th April	61.7	26th April	90.7	68.9	84.9	+1.0		
	Purnea	Purnea	29.617	29.794	—	North-easterly.	11.6	96.3	2nd May	65.9	26th April	96.2	74.3	83.9	+2.5		
	North Bhagulpore	Purnea	29.617	29.794	—	North-easterly.	11.6	96.3	2nd May	65.9	26th April	96.2	74.3	83.9	+2.5		
	MoanBerpore	MoanBerpore	29.679	29.789	—	E	10.7	?	?	?	?	?	?	?	?		
	Darbhanga	Darbhanga	29.688	29.776	—	Variable	10.9	96.4	2nd May	?	?	96.3	?	?	?		
	Champaran	Motihari	29.543	29.713	+0.08	ENE	10.7	100.3	2nd May	64.6	26th April	95.3	71.8	83.9	+1.9		
SOUTH BENGAL.	Gara	Obpara	29.571	29.708	+0.13	Variable	17.9	102.3	2nd May	60.9	27th April	96.9	72.7	88.6	—		
	Shahabad	Debra	29.429	29.786	+0.35	SW	12.1	109.4	2nd May	67.0	27th April	98.6	74.1	88.4	—		
		Husar	29.523	29.772	+0.25	Variable	10.4	106.4	2nd May	69.9	27th April	96.9	74.3	88.0	—		
		Arrah	29.566	29.786	+0.10	W	10.4	106.6	2nd May	69.2	27th April	96.1	78.6	84.8	—		
	Gya	Gya	29.583	29.767	+0.08	E	13.1	109.5	2nd May	60.7	27th April	96.3	74.3	88.6	—		
	Patna	Bankipore	29.583	29.767	+0.08	E	13.1	109.5	2nd May	60.7	27th April	96.3	74.3	88.6	—		
	South Bhagulpore	Shagulpore	29.586	29.786	—	Calm	6.4	100.3	26th April	67.6	26th April	96.3	76.0	88.6	+1.9		
	Moonghyr	Shagulpore	29.586	29.786	—	Calm	6.4	100.3	26th April	67.6	26th April	96.3	76.0	88.6	+1.9		
	South Pargunnahs	Boomha	29.583	29.766	—	Variable	6.7	100.7	26th April	67.6	26th April	96.7	75.6	88.3	—		
	Hazaribagh	Hazaribagh	27.761	29.776	+0.16	South-westerly.	12.3	100.3	1st May	66.3	27th April	94.6	74.5	88.3	—		
CHUTIA NAGPUR.	Inhaburgh	Ranchu	27.667	29.776	+0.11	South-westerly.	17.9	100.3	1st & 2nd May.	67.9	27th April	94.9	75.4	88.3	—		
	Manikbong	Ranchu	27.667	29.776	+0.11	South-westerly.	17.9	100.3	1st & 2nd May.	67.9	27th April	94.9	75.4	88.3	—		
	Shimabong	Chyabong	27.666	29.786	+0.12	South-westerly.	17.9	100.3	2nd May	69.7	27th April, 28th April	100.6	76.6	88.6	—		
	Sibong	Sibong	27.666	29.786	+0.12	South-westerly.	17.9	100.3	2nd May	69.7	27th April, 28th April	100.6	76.6	88.6	—		
ASSAM.	Dubai	Dubai	27.679	29.786	+0.11	North-easterly.	17.9	100.3	27th April	69.7	28th April	97.1	71.7	79.3	+1.4		
	Silchar	Silchar	27.766	29.813	+0.16	Calm	6.7	91.9	26th April	67.6	26th April	96.3	78.0	80.1	+1.6		

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The humidity of the atmosphere is expressed in percentage, saturated air being represented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The normal means of the amount of the rainfall in that district determined from the returns sent in by the subdivisional stations for the period in question during the past ten years in the district is divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

the week ending Friday, the 2nd of May 1890.

				DISTRICT OBSERVATIONS.												
				RAINFALL.												
				Since 1st of April.			Since 15th May 1880.			Average number of rainy days.		Normal number of rainy days.		Representative station.		District.
OF WEEK.																
Rainfall of week at observing station.				Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.	Average number of rainy days.	Normal number of rainy days.					
1	1/4	Nil	Nil	0/11	0/08	1/04	-1/01	77/02	56/28	+10/34	0/0	0/8	Poorce	Poorce	ORISSA.	
2	0/0	0/02	0/02	0/08	0/14	1/14	-1/00	68/44	54/30	+12/45	0/3	0/6	Cuttack	Cuttack	ORISSA.	
3	0	Nil	Nil	0/00	0/46	1/34	-1/48	82/00	57/56	-4/20	0/0	1/3	Balasore	Balasore	ORISSA.	
4	2/0	Nil	0/08	0/03	0/03	1/38	-1/45	60/00	66/80	-0/80	0/3	1/3	Saugor Island	South-West Midnapore	ORISSA.	
5	1/8	Nil	0/08	0/00	0/51	1/28	-1/41	67/21	56/11	-6/14	0/3	1/3	Midnapore	Midnapore	ORISSA.	
6	1/8	0/04	0/21	1/03	1/34	2/34	-1/60	65/08	56/68	-0/72	0/3	1/3	Calcutta	24-Pergunnahs	ORISSA.	
7	2/1	0/02	0/14	1/08	2/04	2/42	-0/68	60/53	51/08	-6/16	1/0	2/0	Burdwan	Burdwan	ORISSA.	
8	3/3	0/08	0/09	0/48	0/75	1/34	-0/59	57/57	53/44	+2/13	1/0	1/3	Bankura	Bankura	ORISSA.	
9	5/4	Nil	0/08	0/37	1/17	1/34	-0/17	54/22	54/80	-0/37	0/3	1/4	Ranagunge	Hooghly	ORISSA.	
10	3/3	Nil	0/08	0/50	1/50	1/52	-0/02	52/50	58/78	-0/79	0/3	1/4	Berhampore	Moorshedabad	ORISSA.	
11	2/3	Nil	0/51	1/00	2/33	2/10	-0/77	54/33	55/08	-0/75	1/0	1/3	Krishnagar	Nuddea	ORISSA.	
12	4/7	0/03	0/52	1/22	3/42	3/43	-0/03	58/58	60/19	-1/41	1/3	2/0	Jessore	Jessore	ORISSA.	
13	3/0	0/08	0/48	1/34	4/30	3/23	+0/75	107/20	130/11	-12/91	1/0	2/1	Chittagong	Chittagong	ORISSA.	
14	1/1	0/08	0/46	1/36	4/40	3/29	+0/50	63/49	83/61	-0/41	1/3	2/3	Demagiri	Chittagong Hill Tracts	ORISSA.	
15	1/4	0/40	0/40	2/31	5/28	3/24	+0/92	90/95	117/38	-17/33	1/3	2/3	Barrisal	Rachergunge	ORISSA.	
16	4/4	0/00	1/16	1/53	3/48	4/31	+1/17	60/09	63/94	+3/15	2/3	2/3	Noakhally	Noakhally	ORISSA.	
17	5/4	0/08	1/36	1/36	6/30	5/01	+1/79	54/74	68/67	+13/97	2/3	2/3	Dacca	Dacca	ORISSA.	
18	4/3	1/20	1/19	2/00	3/39	5/03	-0/44	63/83	80/18	-16/35	3/3	2/4	Commilla	Tipperah	ORISSA.	
19	4/0	0/08	0/67	1/38	3/03	4/78	+0/34	60/50	75/16	+14/74	1/3	2/7	Mymensingh	Mymensingh	ORISSA.	
20	2/3	0/07	1/23	0/66	2/30	2/17	+1/13	60/09	61/25	+0/41	1/3	1/7	Bogra	Bogra	ORISSA.	
21	1/3	0/01	1/20	0/03	3/36	3/30	+0/06	61/40	60/20	+2/14	1/3	2/2	Serajgunge	Fabna	ORISSA.	
22	1/3	0/08	0/68	0/33	1/59	1/49	+2/74	58/76	57/18	+1/28	1/7	1/4	Rampore Bancha	Rajshahye	ORISSA.	
23	1/3	0/08	0/68	0/33	1/59	1/18	-0/33	60/35	56/54	-16/39	0/3	2/1	Maldah	Maldah	ORISSA.	
24	1/3	0/08	0/68	0/33	1/59	1/36	-0/02	58/87	59/91	-1/04	0/6	1/3	Dinapore	Dinapore	ORISSA.	
25	1/3	0/08	0/68	0/33	1/59	1/37	-0/38	58/60	70/67	+0/29	1/3	2/7	Rungpore	Rungpore	ORISSA.	
26	1/3	0/08	0/68	0/33	1/59	1/77	+2/23	125/00	118/40	+0/60	0/3	3/0	Julpore	Julpore	ORISSA.	
27	1/3	0/08	0/68	0/33	1/59	5/31	+0/08	138/84	120/41	+9/63	3/0	3/5	Darjeeling	Darjeeling Hill Tracts	ORISSA.	
28	1/3	0/08	0/68	0/33	1/59	1/61	-0/89	78/77	61/24	+14/53	0/3	1/3	Purneah	Purneah	ORISSA.	
29	1/3	0/08	0/68	0/33	1/59	0/73	-0/42	49/23	40/14	+4/69	1/0	0/8	Mosufferpore	Mosufferpore	ORISSA.	
30	1/3	0/08	0/68	0/33	1/59	0/76	-0/37	62/36	40/18	+6/18	0/0	0/8	Durbhunga	Durbhunga	ORISSA.	
31	1/3	0/08	0/68	0/33	1/59	1/04	-1/04	64/11	48/58	+15/33	0/0	1/0	Motihari	Chumpanun	ORISSA.	
32	1/3	0/08	0/68	0/33	1/59	0/29	-0/27	60/33	43/96	-3/62	0/0	0/4	Chupra	Saran	ORISSA.	
33	1/3	0/08	0/68	0/33	1/59	0/23	-0/19	47/25	41/13	-0/61	0/4	0/3	Dehree	Shahabad	ORISSA.	
34	1/3	0/08	0/68	0/33	1/59	0/20	-0/35	37/38	42/71	-5/33	0/3	0/2	Gya	Gya	ORISSA.	
35	1/3	0/08	0/68	0/33	1/59	0/27	-0/23	43/00	48/81	+1/56	0/3	0/2	Bankipore	Patna	ORISSA.	
36	1/3	0/08	0/68	0/33	1/59	0/27	-0/06	43/04	44/58	-1/54	0/3	0/3	Bhagulpore	South Bhagulpore	ORISSA.	
37	1/3	0/08	0/68	0/33	1/59	0/28	-0/13	50/24	52/70	+2/56	0/3	0/3	Doomka	South Bhagulpore	ORISSA.	
38	1/3	0/08	0/68	0/33	1/59	0/31	-0/31	48/64	52/16	-4/31	0/3	0/4	Hasaribagh	Hasaribagh	ORISSA.	
39	1/3	0/08	0/68	0/33	1/59	0/36	-0/33	46/60	51/04	-4/35	0/7	0/3	Ranchi	Ranchi	ORISSA.	
40	1/3	0/08	0/68	0/33	1/59	0/31	-0/35	39/82	40/44	-0/92	0/0	0/7	Chyabasa	Chyabasa	ORISSA.	
41	1/3	0/08	0/68	0/33	1/59	0/24	-0/66	40/68	54/33	-4/47	1/4	0/3	Hibmagor	Hibmagor	ORISSA.	
42	1/3	0/08	0/68	0/33	1/59	0/27	-0/37	43/00	48/81	+1/56	0/3	0/2	Dhubri	Dhubri	ORISSA.	
43	1/3	0/08	0/68	0/33	1/59	0/27	-0/06	43/04	44/58	-1/54	0/3	0/3	Silchar	Silchar	ORISSA.	

Notes. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater. The cloud amount represents the part of the sky covered, the wind being denoted by 10. Under the head District observations of rainfall the normal means are the means of the district are the numerical average of the rainfall return received in the district, &c., from total rainfall at the subdivisions.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 2ND
OF MAY 1890.

WEATHER has been more settled during the present week than for some time past, the only days when rain fell, beyond very scattered showers, being the first day of the week and again towards the end of the week in East and North Bengal. The most noticeable feature of the weather has been the very low temperature which prevailed on Saturday and Sunday, the 26th and 27th of April, which commencing in the north-west on the 26th gradually spread over the whole province. Some very low temperatures were reported from Behar on the morning of the 27th, from almost every station on the 28th, and from Sibsagar, Silchar, and Chittagong on the 29th. Pressure has on an average again been below the normal, but not to such an extent as during the previous week.

On Saturday the 26th the low-pressure area which had been gradually moving in an easterly direction was over the Sandheads, and as it had a widely extended influence on the wind circulation, giving westerly winds over the whole of Behar, and a cyclonic circulation at the head of the Bay, the abnormal temperature which was then commencing in Behar must have been due to its influence. Pressure was rising rapidly, but there was still a moderately large defect at the head of the Bay and at eastern stations. Temperature was falling, but was above the normal except in the west of Behar at some stations of which large defects had already appeared. Scattered showers fell in all districts, and with the exception of the Maldah and Dinagepore districts, general rain fell in North Bengal. On Sunday the 27th pressure continued to rise very rapidly in Orissa and briskly to rapidly over the western half of the province. Pressure was lowest in East Bengal, but the depression had almost disappeared; westerly winds, however, were blowing over the whole of Bengal and Orissa, and showers of rain fell in East Bengal and the eastern districts of South-West Bengal. On Monday normal conditions recommenced; pressure was falling briskly, but the distribution was very nearly normal. Rain practically ceased, a few scattered showers falling in South-West and North Bengal. Very low temperature then prevailed, but a rapid rise was setting in. During the remainder of the week very nearly normal conditions prevailed. Pressure oscillated about the normal; temperature was generally 2° to 4° above, and the wind circulation was what usually obtains at this season. The weather in East Bengal was slightly unsettled on Thursday and Friday, showers and a low temperature generally prevailing.

Pressure.—Has been, on an average for the week, everywhere below the normal, except in Behar and Chutia Nagpur. The largest difference is about a twentieth of an inch at some of the stations in East and North Bengal, but generally defect was not over two-hundredths of an inch.

Temperature.—As stated above, temperature conditions were very abnormal in the early part of the week. On the 27th, some of the minimum temperatures registered were—Chupra 61° , Arrah and Hazaribagh about 66° , and Dehreo, Buxar, and Bhagulpore about 67° . On the 28th, Darjeeling reported 41.7° , Purneah 63° , and several other stations under 65° , while over almost the whole of Bengal temperature on the night of the 27th was under 70° . Defect amounted to ten or fifteen degrees at some stations, but it rapidly disappeared, and there was generally excess after the first two days. The means for the week are very nearly normal. In Chutia Nagpur there was defect of 3° , in Assam and Orissa excess of 1.5° and 1° respectively, while in the other districts excess did not exceed a few tenths of a degree.

Rainfall.—Frequent showers fell in the early part of the week in East and North Bengal and in the eastern districts of South-West Bengal. From Sunday till Thursday there was a period of dry weather, after which showers again commenced in the eastern districts. Over the western half of the province very scattered showers fell, and many districts have been rainless; these are Monghyr, Bhagulpore, Sonthal Pergunnahs, Hazaribagh, Manbhoom, Moorshedabad, and the greater part of Orissa. The mean falls for the large subdivisions are East and North Bengal 0.8 inch, South-West Bengal 0.3 inch, North Behar 0.05 inch, and the other districts one or two-hundredths of an inch. Rainfall has been everywhere deficient.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 2nd of May 1890 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages of week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of April.		Since 15th May 1889.		
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.	
Orissa	113°4	68°6	85°2	78°6	86°9	+1°0	6°01	6°23	-0°24	0°1	0°3	-0°2	0°21	1°44	64°73	66°29	
South-West Bengal ...	100°4	66°2	87°3	76°4	87°3	+0°2	0°21	0°34	-0°13	0°3	1°7	-0°3	1°36	2°31	53°06	60°77	
East Bengal	94°6	65°0	80°6	74°0	80°3	+0°3	0°79	1°79	-1°00	1°6	2°6	-0°3	3°46	4°06	51°06	52°77	
North Bengal	80°6	64°7	81°6	71°3	81°7	+0°3	0°79	1°13	-0°34	1°0	3°1	-1°1	3°71	3°03	77°57	75°01	
North Behar	103°3	60°9	85°1	73°3	83°3	+0°3	0°66	0°66	-0°00	0°3	1°0	-0°7	0°32	0°37	58°23	60°37	
South Behar	100°4	63°3	84°6	74°3	85°6	0°4	0°01	0°18	-0°15	0°3	0°7	-0°5	0°31	0°46	64°76	65°19	
Chittagong	100°3	66°3	84°7	73°5	83°6	-3°0	0°03	0°11	-0°08	0°3	0°3	-0°5	0°06	0°46	64°16	61°54	
Assam	82°6	65°8	80°0	71°3	76°3	+1°5											

* Chyabass not included.

METEOROLOGICAL OFFICE, BENGAL;
The 6th May 1890.

C. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of April 1890.

	Inches.	Date.	Hour.
The mean pressure of the month	29.735		
The average pressure of April from 24 years' registers ...	29.752		
The highest pressure in the month	29.957	7th	10
The lowest pressure in the month	29.484	24th	16
The range of pressure	0.473		
<hr/>			
The total number of hours of bright sunshine during the month	239.7		
The maximum possible number of hours of sunshine ...	378.9		
<hr/>			
The mean temperature of the month	85.8		
The average temperature of April from 24 years' registers	84.7		
The highest temperature in the month	105.6	24th.	
The lowest temperature in the month	67.2	28th.	
The range of temperature during the month	38.4		
The mean daily range of temperature	18.6		
The greatest range of temperature in one day	30.1	28th.	
<hr/>			
The mean humidity of the month	71		
The average humidity of April from 24 years' registers ...	69		
<hr/>			
The mean vapour tension of the month	0.859		
The average vapour tension of April from 9 years' registers ...	0.861		
The mean cloud proportion of the month	2.46		
The average cloud proportion of April from 13 years' registers	2.63		
<hr/>			
The total rainfall of the month	1.00		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the gauge about 52 feet above the ground)	0.93		
The average fall of April from 48 years' registers...	2.81		
The greatest fall in 24 hours	0.96	21st.	
<hr/>			
The number of rainy days in the month	8		
The average number of rainy days in April from 24 years' registers	8		
<hr/>			
The mean maximum equilibrium temperature of solar radiation during the month	149.7		
The mean difference of sun and air temperatures	54.6		
The greatest sun temperature	155.8	14th.	
The greatest excess of sun over air temperature	59.8	20th.	
The mean temperature of the nocturnal radiation thermometer on woollen cloth	72.4		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground	4.3		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature	7.0	1st.	
<hr/>			
The mean movement of the wind per day	157.4		
The greatest movement of the wind in one day	262.0	12th.	
The greatest movement of the wind in one hour	19.0	12th	1 to 2 P.M.
<hr/>			
The number of hours with winds from each of the 8 points—			
N. 7, N.E. 11, E. 24, S.E. 60, S. 294, S.W. 243, W. 29, N.W. 11, Calm 41.			

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore .003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 0.2° lower; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0.6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

J. H. GILLILAND,

METEOROLOGICAL OFFICE, INDIA;
Calcutta, the 5th May 1890.

For Meteorological Reporter to the Govt. of India.

**Results of the Meteorological Observations taken at the Alipore Observatory from
27th April to 3rd May 1890.**

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 3½° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
April	27th	148.2	8.4	29.778	80.6	89.3	17.7	71.6	70.3	0.406	64.4	60	WNW and calm	114	0.01	Partially cloudy, o, d.
"	28th	151.6	10.5	.702	82.9	87.3	30.1	67.2	71.4	.619	65.0	59	W, SSW and calm	91	Nil	Chiefly clear, d.
"	29th	153.5	8.9	.673	87.5	100.8	22.6	78.2	77.9	.829	73.6	66	SSW and S	168	"	Partially cloudy.
"	30th	152.5	10.2	.685	88.3	98.7	22.0	76.7	79.9	.910	76.4	70	S, SSW and calm	80	"	Chiefly clear.
May	1st	150.5	9.6	.671	88.2	97.3	19.2	78.1	81.2	.975	78.5	74	SSW, SSE and calm	107	"	Partially cloudy, o, t, d.
"	2nd	152.5	9.5	.621	88.5	96.5	16.4	80.1	81.6	.966	78.3	74	SSE and SSW	133	0.03	Partially cloudy, t, <, d.
"	3rd	149.1	9.8	.610	87.6	96.8	15.3	80.5	79.6	.904	76.2	60	SSW and S	189	Nil	Partially cloudy.

The mean pressure of the seven days	...	...	...	Inches.	29.677
The average pressure of the corresponding period for 24 years, S.-G.'s Office	...	...	...	...	29.716
The total number of hours of bright sunshine	...	...	...	Hours.	66.9
The maximum possible number of hours of sunshine	...	...	...	...	90.4
The mean temperature of the seven days	...	...	...	°	86.2
The average temperature of the corresponding period for 24 years, S.-G.'s Office	...	...	...	...	85.6
The extreme variation of temperature	...	...	...	...	33.0
The maximum temperature	...	...	...	...	100.8
The highest velocity of the wind in one hour	...	...	...	Miles.	18
The highest pressure of wind on one square foot	...	...	...	lba.	Approximately 2
The mean relative humidity	...	...	...	%	67
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	...	...	...	...	71

The total fall of rain from 27th April to 3rd May 1890	...	...	...	Inches.	0.04
The average fall of the corresponding period for 24 years, S.-G.'s Office	...	...	...	...	0.77
The total fall from 1st January to 3rd May 1890	...	...	...	...	2.13
The average fall of the corresponding period for 24 years, S.-G.'s Office	...	...	...	...	5.23

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, d drizzling rain, t thunder, < lightning, Δ dew, ☉ lunar corona.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of April 1890.

	Inches.	Date.
The mean pressure at 10 A.M. during the month ...	29.811	
The mean temperature at 10 A.M. during the month ...	89.4	
The highest temperature during the month ...	106.2	24th.
The lowest temperature during the month ...	68.9	2nd.
The absolute range of temperature during the month ...	37.3	
The mean daily range of temperature during the month ...	19.6	
The greatest range of temperature in one day during the month ...	29.1	28th.
The mean 10 A.M. humidity during the month ...	66	
The mean 10 A.M. vapour tension during the month ...	.916	
The total rainfall of the month ...	0.75	
The greatest fall in 24 hours ...	0.60	22nd.
The number of rainy days in the month ...	3	

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA,
The 5th May 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 27th April to 3rd May 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fabr.	TEMPERATURE.						HYGROMETRY.			Rainfall per 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
April 1890...	27th	29.845	82.3	92.0	19.4	72.6	88.6	72.6	.587	63.5	44	Nil
"	28th	782	83.6	98.9	29.1	68.9	89.6	74.5	.692	66.5	47	"
"	29th	786	90.4	102.0	23.2	78.8	92.6	79.5	.832	73.7	55	"
"	30th	756	88.7	100.4	23.4	77.0	93.4	81.5	.915	76.4	58	"
May	1st	741	88.6	99.0	20.2	78.8	93.1	83.5	1.019	79.8	66	"
"	2nd	691	89.5	98.1	17.3	80.8	92.6	83.5	1.026	80.0	67	"
"	3rd	670	89.6	98.0	16.8	81.2	91.6	82.5	.989	78.9	67	0.04

The mean 10 A.M. pressure of the seven days ...	Inches.	29.746
The mean temperature of the seven days ...	°	87.6
The extreme variation of temperature ...	°	38.1
The maximum temperature ...	°	102.0
The mean 10 A.M. relative humidity of the seven days ...	%	58
The total fall of rain from 27th April to 3rd May 1890 ...	Inches.	0.04
The daily mean temperatures are the crude means of maximum and minimum temperatures.		

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;
The 5th May 1890.

MEMORANDUM.

THE number of deaths registered during the month of February 1890 in 45 districts in Bengal amounted to 112,524, against 124,642 in the preceding month, 96,187 in February 1889, and an average of 98,255 in the corresponding months of the previous five years, 1885-89. These figures correspond to annual death-rates of 20.40, 22.68, 17.52 and 17.88, respectively. It will be seen that the death-rate for February 1890 was 2.28 less than that of the preceding month, but 2.88 in excess of the mortality of February 1889, and 2.52 in excess of the average rate of the corresponding month of past five years, 1885-89.

2. The highest death-rates were returned from the following districts. The rates of the corresponding month of 1889 are also given for the purpose of comparison:—

Districts.	Ratio per mille during—		Districts.	Ratio per mille during—	
	Feb. 1890.	Feb. 1889.		Feb. 1890.	Feb. 1889.
Poori	45.36	19.44	Dinajpur	27.60	25.68
Cuttack	34.92	19.44	Hugli	27.24	22.20
Noakhali	34.56	27.00	Howrah	26.64	22.20
Jalpaiguri	30.00	24.60	Balasore	26.04	22.68
Darjiling	29.16	21.48	Chittagong	25.44	20.28
Backerganj	27.84	27.84	Midnapore	25.20	21.86

3. The following table compares the rates of mortality under the several registered death-causes during the three periods, February 1890, 1889, and the average for that month of the past five years, 1885-89:—

	Ratio per mille during—		
	February 1890.	February 1889.	Mean of previous five years, 1885-89
Cholera	1.44	.84	.96
Small-pox	.12	.12	.10
Fever	14.64	12.72	13.08
Bowel-complaints	.72	.48	.60
Injury	.12	.12	.12
Other causes	3.12	3.00	2.76

The only noticeable point indicated by the above figures is that cholera and fever were more fatal in February 1890 than in either of the past periods with which that month is compared.

4. The districts in which the greatest loss of life occurred from cholera and fever were—

Cholera.		Fever.	
	Ratio per mille.		Ratio per mille.
Poori	10.20	Jalpaiguri	28.44
Cuttack	7.56	Noakhali	26.40
Faridpore	4.46	Dinajpur	26.16
Noakhali	4.44	Bungpore	23.28
Tipperah	4.08	Darjiling	23.04
Howrah	3.60	Rajshahye	20.04
Midnapore	3.24		
Dacca	3.00		
Backerganj	2.64		
24-Pergunnahs	2.40		

Small-pox and "Other causes" prevailed with marked severity only in the Poori district (mortality 2.88 and 20.28 per 1,000 of population respectively).

5. The mortality of the month, according to sex, class and age, was as follows:—

According to Sex.		According to Class.		According to Age.	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	22.44	Christians	13.68	Under 1 year	140.76
Females	18.48	Hindus	20.62	1 and under 5 years	18.74
Ratio of male deaths to every 100 female deaths calculated on the proportion such mortality bears to the total male and female population	121	Mahomedans	20.88	5 " 10 "	8.40
		Buddhists	21.36	10 " 15 "	7.68
		Other classes	13.44	15 " 20 "	12.24
				20 " 30 "	13.96
				30 " 40 "	15.48
				40 " 50 "	23.08
				50 " 60 "	33.00
				60 years and upwards	60.96

Detailed information regarding the mortuary statistics of the 45 districts in Bengal dealt with in the above summary will be found in the statement appended.

The 3rd May 1890.

W. H. GUNSO, Dip. Publ. Health, Camb.,
Sanitary Commissioner for Bengal.

OFFICE OF SANITARY COMMISSIONER FOR BUREAU,

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 19th April 1890

BIRTHS.

The births registered during the week ending with Saturday, the 19th April 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 17 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3·8 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years, with which comparison is instituted, — vide the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Ratio of births per 1,000 of the population per annum	20·0	19·4	19·2	20·3	19·9	20·3	17·0

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	WEEKS ENDING—				Towns.	WEEKS ENDING—			
	24th March 1890.	8th April 1890.	12th April 1890.	16th April 1890.		24th March 1890.	8th April 1890.	12th April 1890.	16th April 1890.
Burdwan	24·4	25·9	10·7	30·5	Narainjanj	16·6	20·7	24·8	41·4
Budnapore	26·3	10·8	10·3	15·8	Chittagong	9·4	4·7	9·6	2·3
Hughli and Chinsurah	23·0	23·0	24·6	24·0	Gondalsh	55·1	50·1	50·1	11·6
Barranpore	41·2	34·4	11·8	37·5	Patna	15·2	6·6	13·0	7·8
Chittanpore	28·3	31·4	14·9	14·9	Gya	19·1	16·4	19·1	16·7
Hawrah	18·5	17·6	14·3	17·8	Arrah	23·9	17·2	10·8	14·4
Roh	17·8	7·0	14·0	10·5	Muzaffarpore	18·4	9·7	15·2	13·4
Kashnagar	34·8	9·5	18·0	22·7	Burhanpore	14·1	18·1	22·0	21·2
Kanachal	18·0	21·0	21·0	24·0	Chupra	14·1	14·1	2·0	9·1
Santipore	20·4	14·0	1·4	3·5	Bhagalpore	13·6	10·9	14·5	21·7
Jessore	14·4	17·2	18·4	18·4	Monehyr	26·2	24·8	17·2	25·3
Kanpore Beaulah	21·0	26·1	25·6	31·5	Purneah	27·7	13·9	17·3	24·2
Darjiling	27·0	14·8	14·8	14·8	Poori	27·4	12·6	16·8	21·0
Dacca	30·8	8·4	14·9	15·6					

It will be seen that last week the highest birth-rate was returned from Narainjanj (41·4) and the lowest from Chittagong (2·3).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 29·2 per 1,000 of the population. The rate of the week is 4·3 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years with which comparison is instituted, — vide the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Ratio of deaths per 1,000 of the population per annum	24·1	27·0	21·6	24·6	21·3	24·9	29·2

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	WEEKS ENDING—				Towns.	WEEKS ENDING—			
	24th March 1890.	8th April 1890.	12th April 1890.	16th April 1890.		24th March 1890.	8th April 1890.	12th April 1890.	16th April 1890.
Burdwan	24·4	27·5	32·0	29·0	Narainjanj	8·3	8·3	41·4	12·4
Budnapore	36·7	12·4	34·1	20·1	Chittagong	7·0	4·7	9·4	9·4
Hughli and Chinsurah	37·7	50·4	60·7	63·4	Gondalsh	48·2	27·0	19·3	11·0
Barranpore	17·7	27·3	30·4	47·1	Patna	17·5	11·4	23·0	39·6
Chittanpore	28·3	30·6	21·8	22·0	Gya	66·8	70·2	6·5	44·4
Hawrah	14·1	22·9	21·8	22·0	Arrah	16·7	9·4	13·0	28·7
Roh	21·6	31·2	24·0	21·1	Muzaffarpore	17·0	13·4	12·2	14·2
Kashnagar	5·7	7·4	17·0	11·4	Burhanpore	25·2	17·8	18·1	28·3
Kanachal	24·0	6·0	15·0	6·0	Chupra	11·4	12·1	2·0	9·1
Santipore	28·0	10·5	8·7	5·5	Bhagalpore	10·9	8·1	2·5	29·9
Jessore	17·2	1·4	6·1	42·8	Monehyr	9·0	23·5	28·0	28·9
Kanpore Beaulah	21·0	34·2	32·4	38·8	Purneah	34·6	17·3	31·2	34·6
Darjiling	44·5	24·0	74·1	69·3	Poori	39·9	20·9	18·7	33·7
Dacca	32·7	13·0	21·1	15·6					

It will be seen that last week the highest mortality occurred in the town of Darjiling (59.3) and the lowest in Santipore (3.5). No deaths were registered during the week in Uttarpara town.

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

<i>Cholera.</i>	<i>Small-pox.</i>	<i>Fever.</i>	<i>Other causes.</i>
Ratio per mille.	Ratio per mille.	Ratio per mille.	Ratio per mille.
Hughli and Chinsurah ... 31.3	Poori ... 16.8	Darjiling ... 51.9	Serampore ... 19.6
Patna City ... 14.3	Howrah ... 4.8	Gya ... 37.6	Poori ... 12.5
Howrah ... 9.7		Purneah ... 31.2	Bhagulpore ... 10.0
Dacca ... 5.4		Arrah ... 23.9	Monghyr ... 9.9
Mozufferpore ... 4.9		Durbhanga ... 22.8	
		Rampore Beaulah ... 21.0	
		Poori ... 21.0	

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 5. from cholera, against 3.2 per 1,000 in the preceding week; 1.6 from small-pox, against 1.; 14.6 from fever, against 14.7; 2.4 from bowel-complaints, against 2.2; .2 from injury, against the same ratio; and 5.2 from other causes, against 5.8 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

<i>According to Sex.</i>	<i>According to Class.</i>	<i>According to Age.</i>
Ratio per mille.	Ratio per mille.	Ratio per mille.
Males ... 30.5	Christians ... 30.9	Under 1 year ... 159.8
Females ... 27.8	Hindus ... 30.0	1 and under 5 years ... 98.9
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ... 109	Mahomedans ... 27.4	5 " 10 " ... 17.4
		10 " 15 " ... 11.3
		15 " 20 " ... 18.0
		20 " 30 " ... 19.5
		30 " 40 " ... 19.6
		40 " 50 " ... 26.2
		50 " 60 " ... 41.6
		60 years and upwards ... 75.9

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Sanitary Commissioner for Bengal.

The 5th May 1890.

[illegible]

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 3rd May 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 3RD MAY 1890.			WEEK ENDING SATURDAY, THE 4TH MAY 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	189	40,155	560	163	42,585	601
Jute	32	23,950	428	1	200	3
Firewood	79	34,176	527	77	31,475	483
Other articles	681	1,97,925	2,488	635	1,17,670	1,801
Total	981	2,95,205	3,983	776	1,91,930	2,888

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 26th April 1890, on 1,525½ miles open

	COACHING TRAFFIC		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchan- dise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week (or per mile of railway)	196,121	230,062 5 0	15,15,782 10	6,90,429 5 0	20,078 0 0	10,01,418 3 0	68,3514	104,4234	172,777
For previous 16 weeks of half- year	4,119,742	46,90,554 2 0	6,20,80,289 0	97,88,735 1 0	3,17,639 0 9	1,47,06,757 13 9	1,046,7344	1,532,1284	2,578,8624
Total for 17 weeks	4,315,863	49,20,616 7 0	6,40,05,071 10	1,04,49,165 0 0	3,38,344 9 9	1,57,08,175 0 9	1,115,108	1,636,5544	2,751,6624
COMPARISON									
Total for corresponding week of previous year	275,2044	2,51,771 3 0	30,34,965 30	6,00,437 10 8	31,217 11 8	9,49,436 9 9	65,562	102,577	168,119
Percentage of railway correspond- ing week of previous year	...	104 11 6	...	623 12 1	15 10 6	622 8 11	...	...	...
Total to corresponding date of previous year	6,517,3304	51,81,675 6 2	4,74,80,800 0	1,03,30,476 3 2	2,78,776 7 9	1,57,69,925 0 1	1,123,667	1,645,909	2,769,576

*Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1883.*

RECEIPTS FOR WEEK ENDING 27TH APRIL 1889			RECEIPTS FOR WEEK ENDING 26TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	9,49,437	622	1,525½	10,01,418	656	1,525½	20,04,045	600	1,525½	30,00,535	600	...	64,635

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for week ended 26th April 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	13,815	6,764 0 0	57,944	4,408 8 0	40 5 0	10,809 7 0	1,492	903	2,395
Or per mile of railway	258	111 4 2	1,013 10	77 0 2	0 11 3	193 14 7	.....	.....	.....
For previous 16 weeks of half-year	215,135	1,10,418 15 0	7,75,835 24	48,649 6 0	617 7 0	1,09,076 15 0	27,004	11,145	38,149
Total for 17 weeks	228,950	1,16,782 15 0	8,33,779 0	53,045 8 0	657 12 0	1,70,405 3 0	28,498	12,047	40,545
COMPARISON.									
Total for corresponding week of previous year	12,772	5,630 4 8	75,081 20	3,536 3 0	21 0 3	8,976 9 11	1,037	767	1,804
Per mile of railway corresponding week of previous year	210	94 14 8	1,323 10	61 10 3	0 5 10	155 14 11	.....	.....	.....
Total in corresponding date of previous year	246,014	1,35,182 7 8	6,95,801 20	41,005 13 0	1,375 0 0	1,77,406 4 3	26,733	11,450	38,183

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 27TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 26TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH APRIL 1890.			Total increase in 1890.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	6,977	157	57½	10,809	189	57½	39,990	173	57½	41,005	183	1,657	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 26th April 1890, on 23½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	20,472	6,018 3 0	14,105 0	672 11 4	10 2 0	6,500 15 0	843	66	909
Or per mile of railway	271 13 3	.....	.....	21 5 11	0 7 3	283 8 5	.....	.....	.....
For previous 16 weeks of half-year	3,34,619	96,709 4 0	2,34,093 20	7,081 11 0	167 3 0	1,04,819 2 0	14,165	1,002	15,167
Total for 17 weeks	355,091	1,02,817 4 0	2,58,198 20	8,334 6 0	177 5 0	1,11,340 1 0	15,008	1,767	16,775
COMPARISON.									
Total for corresponding week of previous year	21,140	5,441 16 6	11,266 0	431 8 0	4 14 0	5,876 4 6	807	61	868
Per mile of railway corresponding week of previous year	244 9 3	.....	.....	19 6 4	0 3 0	254 3 1	.....	.....	.....
Total in corresponding date of previous year	400,235	1,05,051 8 0	1,02,973 20	5,891 13 0	118 2 0	1,12,064 5 6	15,000	1,046	16,046

Approximate Statement of gross receipts of the Tarkeessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 27TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 26TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH APRIL 1890.			Total increase in 1890.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
23½	5,978	254	23½	6,231	264	23½	20,000	267	23½	20,000	286	.....	213

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BENAR SECTIONS.)

Approximate Return of Traffic for week ended 19th April 1890, on 747 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-bust.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	142,000	74,000 0 0	6,50,190 0	87,000 0 0	10,000 0 0	1,77,700 0 0	32,907	20,831	53,738
Or per mile of railway ...	190	99 0 0	747 0	117 0 0	13 0 0	239 0 0	...	...	...
For previous 15 weeks of half-year ...	2,402,120	11,78,929 0 0	60,30,920 0	15,77,000 0 0	2,89,034 0 0	20,45,052 0 0	336,954	443,305	780,259
Total for 16 weeks ...	2,544,120	12,52,929 0 0	61,00,110 0	16,64,700 0 0	3,00,034 0 0	22,22,783 0 0	369,961	474,136	844,097
COMPARISON.									
Total for corresponding week of previous year ...	124,541	64,053 0 0	5,22,103 0	74,972 0 0	12,946 0 0	1,52,765 0 0	21,235	29,605	50,840
Per mile of railway corresponding period of previous year ...	165	86 0 0	776 0	111 0 0	17 0 0	205 0 0	...	...	...
Total to corresponding date of previous year ...	2,385,190	12,27,907 0 0	79,30,145 0	15,38,531 0 0	2,78,564 0 0	20,44,602 0 0	342,786	399,675	742,461

* Audited up to week ending 1st March 1890.

† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 30TH APRIL 1890.			RECEIPTS FOR WEEK ENDING 19TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 19TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	1,54,783	227	747	1,77,700	238	673	4,30,094	217	747	4,60,145	216	61,054	...

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 19th April 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	23,140	8,920 0 0	36,570 0	2,300 0 0	170 0 0	11,490 0 0	3,735	1,937	5,672
Or per mile of railway ...	185	72 0 0	292 0	19 0 0	1 0 0	92 0 0	...	...	...
For previous 15 weeks of half-year ...	417,500	1,46,114 0 0	7,16,230 0	47,121 0 0	733 0 0	1,00,968 0 0	34,682	20,450	55,132
Total for 16 weeks ...	440,640	1,55,034 0 0	7,52,750 0	49,421 0 0	923 0 0	1,02,668 0 0	38,417	22,387	60,804
COMPARISON.									
Total for corresponding week of previous year ...	25,928	9,083 0 0	43,530 0	2,084 0 0	61 0 0	12,118 0 0	3,679	1,937	5,616
Per mile of railway corresponding period of previous year ...	207	73 0 0	349 0	16 0 0	1 0 0	97 0 0	...	...	...
Total to corresponding date of previous year ...	427,442	1,60,321 0 0	647,345 0	46,644 0 0	4,617 0 0	1,13,463 0 0	52,091	30,400	82,491

* Audited up to week ending 1st March 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 30TH APRIL 1890.			RECEIPTS FOR WEEK ENDING 19TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 19TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	12,118	97	125	11,490	92	125	30,748	96	125	33,968	91	...	1,776

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 19th April 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	13,880	5,480 0 0	17,000 0	1,376 0 0	130 0 0	6,986 0 0	2,480	624	3,104
Or per mile of railway ...	163	63 0 0	198 0	16 0 0	2 0 0	81 0 0	28	7	35
For previous 15 weeks of half-year ...	963,630	30,001 0 0	3,00,070 0	28,458 0 0	2,466 0 0	1,31,848 0 0	30,138	10,659	40,797
Total for 16 weeks ...	277,510	35,481 0 0	4,16,180 0	39,834 0 0	2,596 0 0	1,35,808 0 0	32,618	11,470	44,088
COMPARISON.									
Total for corresponding period of previous year ...	12,383	4,300 0 0	12,005 0	649 0 0	65 0 0	5,023 0 0	2,479	625	3,104
Per mile of railway corresponding period of previous year ...	144	50 0 0	147 0	8 0 0	...	59 0 0	...	...	...
Total to corresponding date of previous year ...	234,001	76,028 0 0	1,00,000 0	10,281 0 0	2,804 0 0	96,805 0 0	20,002	10,716	30,718

* Audited up to week ending 1st March 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 30TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 19TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 19TH APRIL 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	5,023	58	86	6,986	81	86	14,146	83	86	30,640	80	6,492	...

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 26th April 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,232	1,124 0 0	7,791 0	554 0 0	17 0 0	1,698 0 0	840	234	1,074
Or per mile of railway ...	119	41 0 0	286 0	20 0 0	1 0 0	62 0 0	30	9	39
For previous 15 weeks of half-year ...	51,064	18,662 0 0	2,15,360 0	12,026 0 0	1,407 0 0	32,995 0 0	7,934	7,795	15,729
Total for 16 weeks ...	54,296	19,786 0 0	2,23,150 0	12,580 0 0	1,424 0 0	34,000 0 0	8,435	8,029	16,464
COMPARISON.									
Total for corresponding week of previous year ...	2,794	1,000 0 0	5,323 0	400 0 0	9 0 0	1,409 0 0	800	204	1,004
Per mile of railway corresponding week of previous year ...	103	36 0 0	190 0	15 0 0	...	51 0 0	...	...	...
Total to corresponding date of previous year ...	56,937	21,405 0 0	1,93,781 0	11,006 0 0	1,404 0 0	34,000 0 0	8,407	7,757	16,164

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 27TH APRIL 1889.			RECEIPTS FOR WEEK ENDING 26TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH APRIL 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH APRIL 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	1,409	51	27½	1,698	62	27½	6,200	50	27½	6,400	60	64	...

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 26th April 1890, on 273 miles open.

	COACHING TRAFFIC.		MERCHANTILE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	64,977	16,971 0 0	2,39,925 0	36,807 0 8	3,048 0 0	40,728 0 0	5,442	7,800	13,242
per mile of railway ...	168	62 0 0	865 0	98 0 8	4 0 0	104 0 0	.....	.....	.....
for previous 15 weeks of half-year ...	748,297	3,09,261 0 0	41,31,551 0	4,71,325 0 0	68,178 0 0	4,39,765 0 0	81,238	162,561	233,800
Total for 15 weeks ...	793,274	3,26,232 0 0	43,71,476 0	4,98,133 0 0	82,190 0 0	4,76,401 0 0	86,710	169,551	246,261
COMPARISON.									
Total for corresponding week of previous year ...	64,483	15,731 0 0	1,96,488 0	17,580 0 0	3,797 0 8	37,098 8 0	6,536	6,171	10,707
per mile of railway corresponding week of previous year ...	168	58 0 0	730 0	64 0 8	1 0 0	123 0 0	.....	.....	.....
Total to corresponding date of previous year ...	724,606	2,75,169 0 0	33,80,033 0	3,36,328 0 0	56,280 0 0	3,82,177 0 0	90,256	92,471	182,727

* Steam-boat earnings are excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 27TH APRIL 1890.			RECEIPTS FOR WEEK ENDING 30TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 27TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 30TH APRIL 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Year mileage worked.	Receipts.	Per mile worked.	Year mileage worked.	Receipts.	Per mile worked.	Year mileage worked.	Total receipts.	Per mile worked per week.	Year mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	37,098	136	273	46,728	171	273	1,40,798	134	273	1,83,672	166	37,874	.....

[REGISTERED No. 29.]

No. 20 of 1890.



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, MAY 14, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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RULES FOR CONTROLLING THE TRANSPORT OF EMIGRANTS TO THE LABOUR DISTRICTS OF ASSAM.

GENERAL DEPARTMENT.

Calcutta, the 17th April, 1890.

RESOLUTION.

THE rules sanctioned last year under Bengal Act I of 1889 provide for the inspection of places of accommodation for emigrants in the mofussil, but no reference is made in them to the buildings maintained for that purpose in Calcutta. In practice, these have been considered as subject to inspection by the Superintendent of Emigration, and it seems to the Lieutenant-Governor to be advisable to recognize this arrangement by rule.

2. The importance of regulating the railway journey was recognized from the first, and great improvements have been introduced with the consent of the railway authorities. It is now considered expedient to give to these arrangements the force of rules, particularly as that course has been adopted with regard to emigrants registered under Act I of 1882. Where the precautions it is now proposed to adopt are more detailed, it has been deemed advisable, for the sake of conformity, to amend also the rules under Act I of 1882.

3. The Lieutenant-Governor accordingly proposes to issue the following rules, any objections to which will be considered on the 28th May next:—

Rules to be issued in addition to the existing rules under Act I (B.C.) of 1889.

18. The daily despatch of emigrants by train shall be previously arranged for by the forwarding agent with the railway authorities concerned, so as to prevent overcrowding by the securing of sufficient carriage accommodation for the whole number of emigrants intending to travel.

19. The agent shall provide for emigrants started on a railway journey after 9 A.M. a cooked meal, and for those started at or before that hour a dry meal instead, consisting of bread or biscuit and sugar in the proportion of one pound of bread or two large biscuits and one ounce of sugar to each emigrant of and above ten years of age, and half the above quantities to each emigrant under the age of ten years. Also, if the journey between two halting stations is likely to occupy more than six hours, bread or biscuit and sugar in the same proportions shall be given by the agent for distribution to the emigrants for consumption during the journey.

20. When a medical officer has been appointed by Government to examine emigrants, no emigrants shall be put into the train without being inspected and passed as fit to undertake the journey by such officer. The medical officer will report any breach of rule 19 which may come to his notice.

21. When despatching emigrants by train, the purest drinking water obtainable shall be supplied by the agent in a sufficient number of suitable vessels conveniently placed with the emigrants in the carriages. Emigrants shall be afforded opportunities for leaving their carriages at three selected watering-stations between Sara and Parbutipur, one-third of the carriages at a time being emptied to admit of the station latrines being used and of additional supplies of drinking-water being obtained.

22. Emigrants about to travel by train shall be accommodated in third class carriages specially reserved for them, or in suitably constructed goods wagons attached to passenger trains only, and the number in each such carriage or goods wagon shall in no case exceed the regulation number.

23. The train journey of emigrants under conveyance from recruiting districts direct to Dhubri or to Goalundo shall be performed by the Hooghly-Naihati route.

24. If cholera occurs on the journey by train, the patient shall as soon as possible be removed, by and at the expense of the railway authorities, to the nearest cholera hospital or other suitable place for medical treatment; and particulars of the case, furnishing name of emigrant, batch to which belonging, and depôt from which originally despatched, shall be forwarded by the station-master to the officers concerned.

5A. It shall be the duty of the Superintendent of Inland Emigration to inspect places of accommodation provided for emigrants in Calcutta.

Rules to be substituted for the existing Rules 64, 65 and 69 under the Inland Emigration Act, I of 1882.

64. The daily despatch of emigrants shall be previously arranged for by the contractor or forwarding agent with the railway authorities concerned, so as to prevent overcrowding by the securing of sufficient carriage accommodation for the whole number of emigrants intending to travel.

65. The contractors or garden sardar shall provide for emigrants started on a railway journey after 9 A.M. a cooked meal, and for those started at or before that hour a dry meal instead, consisting of bread or biscuit and sugar in the proportion of one pound of bread or two large biscuits and one ounce of sugar to each emigrant of and above ten years of age, and half the above quantities to each emigrant under the age of ten years. Also, if the journey between two halting stations is likely to occupy more than six hours, bread or biscuit and sugar in the same proportions shall be given by the contractor or garden sardar for distribution to the emigrants for consumption during the journey.

69. When a medical officer has been appointed by Government to examine emigrants, no emigrants shall be put into the train without being inspected and passed as fit to undertake the journey by such officer.

When despatching emigrants by train, the purest drinking-water obtainable shall be supplied by contractors or forwarding agents in a sufficient number of suitable vessels conveniently placed with the emigrants in the carriages. In the absence of latrine arrangements, emigrants shall be afforded opportunities for leaving their carriages at three selected watering-stations between Sara and Parbutipur, one-third of the carriages at a time being emptied to admit of the station latrines being used and of additional supplies of drinking-water being obtained.

Rules to be issued in addition to the existing rules under Act I of 1882.

Emigrants about to travel by train shall be accommodated in third class carriages that are specially reserved for them, or in suitably constructed goods wagons attached to passenger trains only, and the number in each such carriage or goods wagon shall in no case exceed the regulation number.

The train journey of emigrants under conveyance from recruiting districts direct to Dhubri or to Goalundo shall be performed by the Hooghly-Naihati route.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 10th May 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
BARDWAN DIV.	1 Burdwan May 10, '90	Nil	Weather—hot and occasionally cloudy and windy. Agricultural operations impeded for want of rain. Prospect of <i>til</i> and sugarcane not good. Prices of common rice:— Burdwan Srs. 18 Culina 15 Cutwa 15½ Ranigunge 17½ } per rupee.
	Culina ...	0.41	
	Cutwa ...	0.40	
	2 Bankura .. 10, '90	Nil	
	3 Birbhum .. 10, '90	Nil	
BARDWAN DIV.	Ranpore Haut ...	0.12	Weather—very hot. Fields are being prepared for rice sowing. Cotton being gathered in the Bishnupore subdivision; outturn 10 annas. Other standing crops doing well. Common rice 20 seers per rupee at Sudder and 18½ seers at Bishnupore.
	4 Midnapur .. 10, '90	Nil	Weather—hot. Nothing to report as regards crops. Prices range from 16 to 20 seers of common rice per rupee.
	5 Hooghly .. 10, '90	Nil	Weather—hot. Rain wanted for ploughing. Prices of common rice:— Sudder Srs. 18 Contal 20 Ghatal 16 Tamluk 17 } per rupee.
	Howrah .. 10, '90	Nil	Weather—sultry with high winds from the south in the evening. Rain wanted. The sugarcane crop is estimated at 12 annas. Prices of common rice:— Sudder Srs. 14 Scrapore 16 Jehanabad 16 } per rupee.
	Howrah .. 10, '90	Nil	Boro paddy reaped with about 4 annas outturn. Rain wanted for ploughing. Common rice 12 seers per rupee.
<i>Central Districts.</i>			
PRESIDENCY DIV.	6 24-Parghas May 13, '90	Nil	Weather—very hot. Sowing of early rice and jute going on, but rain very much wanted. Sugarcane doing well. Price of common rice stationary.
	7 Nadia .. 10, '90	0.03	
	Chudanga ...	0.11	
	Meherpore ...	0.15	
	8 Khosla .. 10, '90	1.02	
PRESIDENCY DIV.	Satkhira ...	0.11	Weather—very hot. Cultivation going on in the Sudder subdivision, but more rain wanted in Satkhira. Reaping of boro nearly completed.
	9 Jessore .. 10, '90	Nil	Weather—very hot with occasional clouds and strong south winds. Sowings of paddy, jute, and indigo continue, but more rain wanted.
	Jhenidah ...	0.64	
	Magura ...	0.57	
	Nasail ...	1.10	
	10 Moorshedabad .. 10, '90	Nil	
RAJSHAHY DIV.	Lalbahar ...	0.30	Heat above normal. Rain much needed for <i>bhadoi</i> sowings. There has been a little <i>bhadoi</i> sowing in the Jungipore and Sudder subdivisions.
	Jungipore ...	0.06	
	11 Dinagpur .. 10, '90	1.75	
	Thakurgaon ...	0.81	
	12 Rajshahy .. 10, '90	Nil	
RAJSHAHY DIV.	Natore ...	0.35	Weather—hot. Clouds passing to and fro and rain expected. Jute sowing continues. Ploughing for winter paddy going on. Prices stationary.
	Nowgong ...	1.52	
	13 Rangpur .. 10, '90	3.52	
	Kurigram ...	1.55	
	Nilphamari ...	0.89	
RAJSHAHY DIV.	Gaibandha ...	3.52	Weather—extremely sultry with westerly winds. Prospects generally favourable. The young paddy is coming up magnificently. Jute sowings are daily progressing.
	14 Bogra .. 10, '90	0.08	
	Sherpur ...	0.38	
	Nowkhilla ...	3.24	
	15 Pabna .. 10, '90	Nil	
RAJSHAHY DIV.	16 Darjeeling .. 10, '90	0.73	Weather—hot. Sowing of paddy and jute in the Serajgunge subdivision finished. Crops on low lands doing well. Sowing continues in other parts. Price of common rice 13 to 14 seers per rupee.
	17 Jalporee .. 10, '90	0.28	Weather—fair. Crops doing well. In Terai <i>bhadoi</i> paddy, jute, and sugarcane are still being sown. Prospects generally good.
			Weather—hot and sometimes cloudy. Sowing of <i>bhadoi</i> paddy and jute progressing rapidly. Prospects satisfactory. Prices stationary.

No.	District and date of return.	Rainfall at sudder station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—concluded.			
<i>Eastern Districts.</i>			
Dacca Divn.	18 Dacca May 10, '90	Nil	Weather—very hot and fine. Slight rain in Manickganje and Munshiganje. Sowing of rice and jute going on. Boro paddy nearly harvested. Common rice sold at from 18 to 16 seers per rupee during the week.
	19 Farreedpur „ 10, '90	Nil	Weather—hot. Jati dhos is being reaped with an average outturn of 12 annas. State of standing crops fair, but rain badly wanted. Price of common rice varies from 18 seers in Sudder to 16 seers in Gualundo.
	20 Backergunge „ 10, '90	Nil	Weather—hot and cloudy. Prospects of crops generally fair, but in some places want of rain is much felt. Common rice selling at from 18 to 16 seers per rupee.
	21 Mymensingh „ 10, '90	0.06	Weather—very hot. Strong wind blowing at present. Prospects of crops good. Common rice sells at 13 seers 10 chittacks per rupee.
Chittagong Divn.	22 Chittagong „ 10, '90	Nil	Weather—hot. The chilly crop is excellent. Sowing of aus paddy is in progress, but ledá worm (probably the mole cricket) is reported to have appeared in thannabs Patia, Hathasari, and Pattickchurry. Price of rice stationary.
	23 Noakholly „ 10, '90	Nil	Weather—very sultry. Sowing of aus crop going on. Rain badly needed. About 12 annas of rubbi crop have been gathered. Price of rice stationary.
	24 Tipperah „ 10, '90	0.03	Weather—unusually warm. Rice, jute, and flé thriving. Prospects good. Rain wanted.
	25 Chittagong Hill Tracts „ 9, '90	0.97	Weather—very hot throughout the week. A heavy shower of rain on the 7th. Jem burning still continues in some places, where it was retarded by rain. Gathering of tobacco and chillies still continues. Sugarcane doing well. Common rice being sold at 13 seers 5½ chittacks per rupee.
BEHAR.			
Patna Divn.	Hill Tipperah	...	Report not received.
	26 Patna „ 10, '90	Nil	Weather—hot and dry; west wind prevails. Prospects of chasas and other crops standing on the ground favourable, but rain will do good. Prices rising.
	27 Gya „ 10, '90	Nil	Weather—hot. Prospects of chasas and sugarcane favourable. Prices of food-grains almost stationary.
	28 Shehabad „ 10, '90	Nil	Weather—very hot with west winds. Harvest of chasas proceeding. Sugarcane being irrigated. Standing crops good and prospects favourable.
Bhagalpur Divn.	29 Darbhanga „ 10, '90	Nil	East wind prevailing. Threshing of rubbi nearly over. Paddy, musg, and indigo doing well, but rain much wanted. Prices rising.
	30 Mousserpar „ 10, '90	Nil	Wind changeable, heat considerable. Rain very much wanted. Paddy, musg, and chasas still being sown in places.
	31 Saran „ 10, '90	Nil	Weather—hot; wind variable. Indigo prospects indifferent except in the north and west. Chasas good.
	32 Champaran „ 10, '90	Nil	Weather—hot. Paddy is being sown. Chasas and kado growing, but want rain. Preparation of land for sowing of bhadol crops going on. Opium weighment almost finished.
Bhagalpur Divn.	33 Monghyr „ 10, '90	Nil	Weather—very hot and dry; wind variable. No crop to report on. Rain urgently wanted for the preparation of lands for bhadol crops. Prices almost stationary.
	34 Bhagalpur „ 10, '90	Nil	Weather—very hot; winds easterly. Sugarcane and indigo doing well. Want of rain retards cultivation of bhadol. Rain badly wanted.
	35 Purneah Kiscungunge „ 10, '90	0.96	Weather—hot with easterly winds and also cloudy. Jute, sugarcane, and bhadol crops being sown. Rain, which is wanted, would be beneficial to the crops generally.
	36 Maldah Chanchal Gajole „ 10, '90	0.82 0.12	Weather—hot and oppressive; evenings cloudy and windy. Harvesting of boro paddy continues. Sowings of bhadol and winter rice going on. These crops suffering much for want of rain. Prospects of other standing crops fair. Prices of common rice stationary.
	37 Sonthal Pargha. Pakour Rajmehal „ 10, '90	0.45 0.07	East wind at first; now westerly wind. Weather hot and seasonable. Slight rain in parts, but more wanted everywhere for sugarcane and to assist agricultural operations. Boro paddy being reaped in Rajmehal. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIV.	38 Cuttack May 13, '90	Nil	Ploughing going on, but with difficulty for want of rain.
	39 Poores .. 9, '90	Nil	Weather—hot. Lands are being manured for the ensuing <i>sarad</i> crop. In the Sudder subdivision harvesting of <i>dalsa</i> crop nearly over, but still continues in the Khoorda subdivision. Price of common rice stationary.
	40 Balasore .. 10, '90	Nil	Weather—very hot and dry. Cotton and sugarcane doing well. <i>Dalsa</i> rice being harvested. Rain wanted. Number of coolies on relief work 126.
CHOTA NAGPORE.			
<i>South-West Frontier Agency.</i>			
CHOTA NAGPORE DIV.	41 Hazaribagh May 10, '90	Nil	Weather—seasonable, very hot. Sugarcane and mango doing well. <i>Mohua</i> has yielded from 8 to 12 annas. No other crops.
	42 Lohardugga .. 10, '90	Nil	Weather—hot and seasonable. <i>Mohua</i> gathering nearly finished. Sugarcane and mango doing well. Rain wanted for ploughing lands for early paddy. Prices steady.
	43 Singhbhum .. 10, '90	Nil	Weather—very hot. Sugarcane thriving. Mango and <i>mohua</i> yielding well. Nothing else to report on. Prices steady.
	44 Manbhum .. 10, '90	Nil	Weather—very hot and close. No crop on the ground except sugarcane. <i>Kuami</i> lac has yielded a full crop. Rice selling at from 18 to 25 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 13th May, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from
4th to 10th May 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 5 ^h P.m.	TEMPERATURE				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
May	4th	148.7	9.4	29.654	89.0	95.8	15.2	80.6	81.5	0.978	78.6	72	SSW and SSE	206	Nil	Partially cloudy.
"	5th	151.5	10.0	29.677	89.5	98.7	19.1	79.6	81.4	0.967	78.2	71	SSW and SSE	141	"	Chiefly clear.
"	6th	148.7	10.4	29.600	90.1	102.2	22.7	79.5	81.4	0.958	77.9	69	SSW and SSE	125	"	Chiefly clear.
"	7th	154.5	8.5	29.509	90.3	106.8	23.8	80.0	81.3	0.946	77.6	69	SSW, SSE and variable.	120	"	Chiefly cloudy.
"	8th	157.8	9.0	29.485	89.8	105.4	25.0	80.4	79.1	0.932	78.7	61	SSW and WNW	107	"	Partially cloudy.
"	9th	151.6	9.2	29.541	89.8	97.8	17.2	80.6	82.2	0.906	79.2	72	SSW and S	260	"	Partially cloudy.
"	10th	154.2	7.0	29.537	91.0	102.4	20.3	82.1	80.0	0.879	70.3	63	SSW, S and variable	182	"	Partially cloudy.

The mean pressure of the seven days ... 29.579
The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 29.683

The total number of hours of bright sunshine ... 63.5
The maximum possible number of hours of sunshine ... 91.2

The mean temperature of the seven days ... 90.2
The average temperature of the corresponding period for 24 years, S.-G.'s Office ... 85.2
The extreme variation of temperature ... 25.9
The maximum temperature ... 105.4

The highest velocity of the wind in one hour ... 20

The highest pressure of wind on one square foot ... Approximately 3

The mean relative humidity ... 68
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office ... 74

The total fall of rain from 4th to 10th May 1890 ... Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office ... 0.93
The total fall from 1st January to 10th May 1890 ... 2.13
The average fall of the corresponding period for 24 years, S.-G.'s Office ... 6.16

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.
The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 12th May 1890.

Bengal for the month of April 1890.

DISTRICT OBSERVATIONS.											Representative stations.	DISTRICT.	METEOROLOGICAL DIVISION.
RAINFALL.													
Of month.					Since 18th May 1889.								
Mean of district.	Normal mean.	Variation from mean.	Number of rainy days.	Normal mean number of rainy days.	Mean of district.	Normal mean.	Variation.	Mean number of rainy days.	Normal mean number of rainy days.				
0.93	0.96	-0.03	9.5	1.0	77.02	84.29	+19.26	105.3	80.3	Poorce Gopulpore False Point	Poorce	CHINA.	
0.16	1.06	-0.90	1.0	3.3	68.46	84.06	+13.60	60.8	80.1	Cuttack	Cuttack		
0.90	1.08	-0.18	1.6	3.6	83.03	87.32	-4.29	90.4	85.8	Balasore	Balasore		
0.08	1.73	-1.65	0.7	3.3	90.09	86.73	-3.36	100.3	98.7	Saugor Island	South-West Midnapore and South 24 Pargannas	SOUTH-WEST BENGAL.	
0.51	1.06	-0.55	1.3	3.9	67.03	85.64	-7.61	90.4	80.3	Midnapore	Midnapore		
1.07	1.94	-0.87	3.1	4.0	85.76	86.37	-0.61	60.9	100.0	Calcutta	24 Pargannas, Howrah, and Hooghly.		
1.75	2.16	-0.41	3.0	4.2	66.40	81.32	-14.92	80.3	85.3	Burdwan	Burdwan	SOUTH-WEST BENGAL.	
0.70	1.19	-0.49	2.6	3.8	67.57	83.26	-15.69	80.3	80.9	Bankura	Bankura		
1.18	1.31	-0.13	2.0	3.2	84.20	84.45	-0.25	90.5	91.1	Ranigunge	West Burdwan and Beerbhoom.		
1.67	1.29	+0.38	2.3	3.0	65.96	83.04	-17.08	85.6	86.3	Berhampore	Moorebadabad	SOUTH-WEST BENGAL.	
2.28	2.33	-0.05	4.0	4.3	84.30	84.63	-0.33	95.0	88.0	Krishnagore	Nuddea		
2.14	2.33	-0.19	3.9	5.3	85.10	89.89	-4.79	105.3	98.3	Jessore	Jessore and Khoolna	SOUTH-WEST BENGAL.	
4.20	2.38	+1.82	3.0	6.9	107.20	119.51	-12.31	135.0	118.1	Chittagong	Chittagong		
3.25	2.64	-0.60	3.3	6.0	73.44	85.33	-11.89	110.0	128.0	Demagiri	Chittagong Hill Tracts	SOUTH-WEST BENGAL.	
4.22	3.12	+1.10	3.0	5.2	83.18	89.35	-6.17	110.7	117.1	Barrisal	Sackergunge		
5.03	4.66	+0.37	3.0	6.0	90.02	116.40	-26.38	135.0	131.0	Noakholly	Noakholly	SOUTH-WEST BENGAL.	
4.04	3.76	+0.28	3.0	4.3	68.65	63.38	+5.27	95.0	99.5	Furzedpore	Furzedpore		
5.00	4.65	+0.35	7.3	7.8	83.80	68.60	+15.20	130.8	105.4	Dacca	Dacca	SOUTH-WEST BENGAL.	
4.04	4.09	-0.05	9.8	6.7	63.08	79.43	-16.35	108.4	111.0	Comillah	Tipperah		
5.28	5.00	+0.28	7.3	7.2	98.08	74.44	+23.64	117.6	102.3	Mymensingh	Mymensingh	SOUTH-WEST BENGAL.	
3.39	1.22	+2.17	4.5	3.5	60.09	60.08	+0.01	110.7	85.7	Bogra	Bogra		
4.01	2.05	+1.96	7.8	6.0	61.20	34.85	+26.35	118.0	93.0	Serajunge	Patna	SOUTH-WEST BENGAL.	
4.20	1.61	+2.59	4.3	3.8	68.71	57.00	+11.71	96.0	88.0	Rampore Beaulah.	Rajahmundry		
0.25	0.90	-0.65	2.6	2.8	60.26	66.30	-6.04	78.6	90.2	Maldah	Maldah	SOUTH-WEST BENGAL.	
1.20	1.11	+0.09	3.0	2.3	86.53	80.06	+6.47	87.1	84.1	Dinapore	Dinapore		
3.77	3.82	-0.05	7.0	6.2	80.06	79.25	+0.81	95.3	95.3	Rungpore	Rungpore	SOUTH-WEST BENGAL.	
7.04	6.24	+0.80	11.0	7.0	120.33	117.81	+2.52	117.0	100.0	Jalpigore	Jalpigore and Oooch Behar.		
5.11	4.66	+0.45	13.3	9.3	138.04	138.06	-0.02	142.7	130.3	Darjeeling	Darjeeling Hill Tracts.	SOUTH-WEST BENGAL.	
0.71	1.34	-0.63	5.0	5.4	70.76	61.61	+9.15	78.3	73.3	Furneah	Furneah and North Bhagulpore.		
0.80	0.86	-0.06	1.7	1.4	60.28	65.08	-4.80	74.1	63.1	Mosufferpore	Mosufferpore	SOUTH-WEST BENGAL.	
0.20	0.80	-0.60	1.3	1.6	52.27	60.11	-7.84	60.3	61.0	Durbhunga	Durbhunga		
NI	0.77	-0.77	0.0	1.6	60.11	65.31	-5.20	67.0	86.0	Motihari	Chumperan	SOUTH-WEST BENGAL.	
0.05	0.24	-0.19	0.3	1.0	60.38	63.66	-3.28	60.0	61.3	Chupra	Sarus		
0.08	0.10	-0.02	0.4	0.7	60.58	61.02	-0.44	71.4	64.7	Dehree Buzar Arrah	Shahabad	SOUTH-WEST BENGAL.	
0.04	0.23	-0.19	0.3	0.9	57.38	60.68	-3.30	67.3	61.6	Gya	Gya		
0.04	0.20	-0.16	0.3	1.1	60.00	63.23	-3.23	65.3	63.0	Bankipore	Patna	SOUTH-WEST BENGAL.	
0.00	0.51	-0.51	1.3	1.4	60.12	64.63	-4.51	71.0	70.3	Bhagulpore	South Bhagulpore and Monghyr.		
0.70	0.73	-0.03	2.0	2.0	55.20	55.57	-0.37	65.4	66.5	Naya Doonka	Sonthal Pargunnas	CHITTA NAUTY.	
NI	0.23	-0.23	0.0	1.1	60.00	55.16	+4.84	65.6	65.0	Hasaribagh	Hasaribagh		
0.06	0.40	-0.34	0.7	1.9	60.00	60.00	+0.00	67.3	69.0	Ranchee	Chandragra Monghyr		
0.26	0.74	-0.48	1.5	1.5	30.23	40.27	-10.04	104.1	91.8	Chyabasa	Singbhoom	CHITTA NAUTY.	
0.04	0.07	-0.03	1.0	2.9	60.00	64.30	-4.30	107.0	100.3	Sibhagar Bihar Bihar	Assam		

Table of Rainfall recorded at Stations in

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS
TAKEN IN ASSAM, FOR THE MONTH OF APRIL 1890.**

Meteorology of the month.—Weather conditions, especially during the latter half of the month, have been very different in the various districts. Thus in East and North Bengal rainfall has been above the average and temperature below, while in the other districts rainfall has been deficient and temperature in excess. This may be due to the position of the low-pressure area which generally lies over Bengal, to the centre of which the three sets of winds seem to converge. In consequence of the high pressure in the early part of the month, the area of lowest pressure was either close up to the hills, in which case westerly winds were blowing over the whole province and no rain fell, or the area was to the west of the boundary of Bengal, and then the westerly winds blowing across Chutia Nagpur or down the Gangetic valley were feeble. It would seem that the rainfall in the western districts in the month of April is due to the interaction of the Bay current and the westerly current, and as the latter has been feeble during the month under review, the rainfall on that side of the province has also been below the normal, while the continued cloudless weather has given higher temperatures than usual. Again in the eastern districts, the current from the Bay has moved in a more northerly direction, and the interaction with the Assam current may have been more pronounced than usual; hence the heavier rainfall in East and North Bengal. In the early part of the month pressure had commenced to rise, and with various small oscillations the rise went on during the first half of the month, during which time there was lower pressure in the North West Provinces and Central India than in Bengal. The weather had the ordinary hot season characteristics, high temperature, clear skies, and generally southerly winds in the lower districts and easterly in North Bengal and Behar. By the middle of the month pressure was again below the normal, and it continued so almost till the end of the month. Two small depressions appeared during the third and fourth weeks, the first about the 17th, when winds were south-easterly in South-West and East Bengal and general rain fell in the eastern districts, but only very scattered showers elsewhere. The depression moved from the west to about the centre of the province and then filled up. The second one commenced on the 24th to the west of Chutia Nagpur, and moving in a south-easterly direction was over the head of the Bay on the 26th and in Arakan on the 27th. During the ten days following the 17th the weather in East and North Bengal was unsettled. Severe thunderstorms with heavy rain were of daily occurrence, and one of these, in the neighbourhood of Mymensingh, seems to have acquired the violence of a tornado. Thus during the month, pressure was high in the early part, fine clear weather prevailing, and low during the latter half, when winds from Assam strengthening and those in Lower Bengal becoming easterly, showery weather with low temperature set in, while in the other districts only occasional scattered showers occurred.

Pressure.—The steady rise which had set in at the end of March continued till the end of the first week of April, when there was a large excess in the centre of the province, gradually diminishing towards the boundaries. At Maldah and Serajgunge it exceeded a fifth of an inch, and in East Bengal and parts of South-West and North Bengal was more than $\frac{1}{15}$ inch. A general fall then set in and continued with moderate rapidity till the 12th, when the distribution was very nearly normal, and after remaining steady or oscillating about the normal for some days, a fall again set in on the 17th, followed by slight changes on the 18th and a rapid rise on the 19th, especially in East Bengal. From the 20th to the 24th it fell rapidly, giving a defect of about a fifth of an inch in East Bengal and a tenth elsewhere, then rose rapidly till the distribution was again nearly normal on the 26th, after which it fell on the 29th and rose on the 30th. The oscillations have therefore been large and generally continued for several days, but except in the early part of the month, pressure has generally been below the average. The means for the month are slightly below the normal in Lower Bengal, the difference being about a hundredth of an inch in Orissa, South-West Bengal, and South Behar. Elsewhere there is a small excess, generally under a hundredth of an inch.

Temperature.—Has generally been above the normal, more especially in the western half of the province. In the early part of the month excess was largest in the day temperatures, averaging about 3° , while at night there was generally excess of about 1° . Between the 4th and 11th there was a large fall in the maximum temperature in Lower Bengal, but an increase at night, the mean still continuing above the normal, except in Orissa and East Bengal. As compared with the normal, there was less difference during these days than any other part of the month, and these conditions remained unaltered in Orissa and East Bengal for some time, while excess was from 2° to 3.5° in the other districts. Between the 18th and 26th, in consequence of the two shallow depressions giving unsettled weather and thunderstorms, a rather large defect appeared in East and North Bengal, but after the disappearance of the second depression about the 26th, a cold wave moved over the whole province, giving unusually low temperatures for about one day. It was felt in Behar on Saturday the 26th, over the great part of Bengal on the 27th, and at the eastern stations on the 28th. With the approach of these conditions temperature fell with great rapidity, and for the short time they lasted it was from 10° to 20° below the normal. Some of the minimum temperatures registered on the 27th were—Chupra 61° , Arrah and Hazaribagh 66° , Dehree, Buxar, and Bhagulpore 67° . On the 28th Darjeeling reported 41.7° , Purneah 63° ,

and several other stations under 65° , while over almost the whole of Bengal temperature on the night of the 27th was under 70° . A rapid rise followed, and till the end of the month excess prevailed. The means for the month are above the normal except in East and North Bengal. In Chutia Nagpur excess is 0.8° , South-West Bengal 0.6° , and South Behar 0.5° . For East and North Bengal defect is about half a degree, and for the other districts the mean is very nearly normal.

Rainfall—Was absent during the early part of the month. Scattered showers commenced in South-West and East Bengal, continuing till the 10th, and almost general rain fell in the northern districts of North Bengal from the 9th to the 11th. Between the 11th and 15th only a few scattered showers fell in North Bengal, but on the 16th they were again more numerous in East and North Bengal, and almost general rain was received on the 18th and 19th over the eastern half of the province. Rainfall was again more scattered on the 19th, and continued so till the 26th, after which it practically ceased. The showers in the western half have been unusually scattered and scanty, and the average fall for these parts is largely below the normal. Excess in North Bengal amounts to 1.3 inches, and in East Bengal to 0.9 inch. South-West Bengal has received about three-fourths of the average, South Behar four-fifths, North Behar one-third, Orissa one-fifth, and Chutia Nagpur one-seventh. Some heavy falls have occurred in East and North Bengal, the heaviest being Julpigoree 6.3 inches, Mymensingh 6 inches, Noakhally and Serajgunge over 5 inches, and Dacca 4.8 inches. Heavy rain has been falling in Assam—12.8 inches at Silchar, 6.9 inches at Sibsagar, and 6.8 inches at Dhubri.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of April 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.						
	Highest observed during month.	Lowest observed during month.	Averages for month.			Average mean of month above or below normal mean of month.	Of month.			Rainy days.			Since 15th May 1889.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in month.	Normal average number in month.	Variation.	Average.	Normal average.
Orissa	115.4	85.8	92.5	78.5	85.5	+0.1	0.30	1.29	-1.08	1.1	2.7	-1.6	64.78	59.78
South-West Bengal	115.6	84.3	96.9	76.8	87.7	+0.8	1.84	2.05	-0.21	3.1	4.0	-0.9	54.98	56.90
East Bengal	95.8	84.4	90.4	73.8	82.0	-0.3	4.38	4.00	+0.38	7.8	6.4	+1.2	53.45	58.17
North Bengal*	108.3	88.2	98.4	71.4	89.4	-0.8	3.75	2.45	+1.28	6.0	4.4	+1.6	77.88	74.65
North Behar	106.8	86.5	96.0	70.3	83.3	+0.1	0.22	0.81	-0.59	1.3	1.7	-0.4	53.32	50.43
South Behar*	110.9	85.4	100.5	74.1	87.3	+0.5	0.23	0.40	-0.17	1.0	1.3	-0.3	44.78	45.11
Chutia Nagpur	101.6	85.3	90.8	73.3	81.8	+0.3	0.08	0.43	-0.35	0.5	1.8	-1.2	44.16	51.29
Assam	97.7	83.2	86.7	69.4	77.8	+0.1								

* Gya and Chybsam not included.

METEOROLOGICAL OFFICE, BENGAL,
The 13th May 1890.

C. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 9th of May 1890—concl.

Metropolitan Division.	District.	Station.	RAINFALL.							TOTAL.		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 1st of May 1889.	Average rainfall from 1st of May to date.
			Saturday, 3rd May.	Sunday, 4th May.	Monday, 5th May.	Tuesday, 6th May.	Wednesday, 7th May.	Thursday, 8th May.	Friday, 9th May.	Number of rainy days.	of rainfall week.				
NORTH BENGAL—continued.	Chharpur...	Motihari...	...	...	...	...	...	...	...	...	...	...	0.06	78.53	67.00
		Bettiah...	...	...	...	...	...	...	...	...	...	...	0.94	88.69	80.08
		Bogaha...	...	...	...	...	...	...	...	...	...	...	?	71.15	?
		Burharua...	...	...	...	...	...	...	...	...	...	...	?	61.94	?
SOUTH BENGAL	Saran	Gopalcunda...	...	...	...	...	...	...	...	...	...	...	1.06	88.78	68.38
		...	...	...	...	...	...	...	...	...	...	...	0.40	44.45	45.44
		...	...	...	...	...	...	...	...	...	...	...	0.30	40.80	41.80
		...	...	...	...	...	...	...	...	...	...	...	0.28	37.74	38.60
	Shahabad	Chuprah...	...	...	...	...	...	...	...	...	...	...	0.10	61.04	59.60
		Huzar...	...	...	...	...	...	...	...	...	...	...	0.33	34.61	41.38
		Bhaboan...	...	...	...	...	...	...	...	...	...	...	0.30	30.44	41.60
		Sameran...	...	...	...	...	...	...	...	...	...	...	0.38	44.05	41.74
	Gya	Arrah...	...	...	...	...	...	...	...	...	...	...	?	?	?
		Mohaniah...	...	...	...	...	...	...	...	...	...	...	?	?	?
		Aurangabad...	...	...	...	...	...	...	...	...	...	...	0.17	88.74	68.38
		Gya...	...	...	...	...	...	...	...	...	...	...	0.17	40.20	40.04
	Patna	Nowadah...	...	...	...	...	...	...	...	...	...	...	0.41	30.72	41.74
		Jehanabad...	...	...	...	...	...	...	...	...	...	...	0.32	35.77	41.30
		Arcoi...	...	...	...	...	...	...	...	...	...	...	?	?	?
		Isaunagar...	...	...	...	...	...	...	...	...	...	...	?	?	?
	Monghyr	Sherrghati...	...	...	...	...	...	...	...	...	...	...	?	?	?
		Katwa...	...	...	...	...	...	...	...	...	...	...	?	17.04	?
		Patna-Barwan...	...	...	...	...	...	...	...	...	...	...	?	31.90	?
		?	?	?
	South Bhagalpore	Patna...	...	...	...	...	...	...	...	...	...	...	0.38	81.00	48.34
		Dispur...	...	...	...	...	...	...	...	...	...	...	0.30	40.30	48.33
		Waher...	...	...	...	...	...	...	...	...	...	...	0.30	41.30	48.78
		Barr...	...	...	...	...	...	...	...	...	...	...	0.05	30.05	41.37
	Moulvibazar	Bickram...	...	...	...	...	...	...	...	...	...	...	?	41.35	?
		Hilga...	...	...	...	...	...	...	...	...	...	...	?	38.44	?
		...	...	...	...	...	...	...	...	...	...	...	0.43	44.18	41.79
		...	...	...	...	...	...	...	...	...	...	...	0.37	41.74	40.86
	South Bhagalpore	Jamui...	...	...	...	...	...	...	...	...	...	...	0.47	39.58	40.08
		Gosri...	...	...	...	...	...	...	...	...	...	...	?	39.19	?
		Sheikhpura...	...	...	...	...	...	...	...	...	...	...	?	43.81	?
		...	...	...	...	...	...	...	...	...	...	...	0.05	40.13	44.78
	South Bhagalpore	Bhagalpore...	...	...	...	...	...	...	...	...	...	...	0.33	40.04	48.70
		Banks...	...	...	...	...	...	...	...	...	...	...	?	40.97	?
		Kolgong...	...	...	...	...	...	...	...	...	...	...	?	?	?
		Bongson...	...	...	...	...	...	...	...	...	...	...	?	?	?
	South Bhagalpore	Rajmahal...	0.07	...	...	...	...	...	...	1	0.07	0.07	1.48	60.70	55.57
		Gedon...	...	...	...	...	...	...	...	...	...	...	0.01	49.77	49.55
		Pakour...	...	...	...	...	...	...	...	...	...	...	0.45	7.40	37.40
		Nya Doomba...	...	0.45	...	...	...	...	...	...	...	...	0.08	50.62	50.65
	South Bhagalpore	Doonbar...	...	...	...	...	...	...	...	...	...	...	0.72	41.82	43.47
		Jamuna...	...	...	...	...	...	...	...	...	...	...	0.70	40.57	41.44
		Mohagama...	...	...	...	...	...	...	...	...	...	...	?	47.05	?
		Nonthal...	...	...	...	...	...	...	...	...	...	...	?	47.05	?
CENTRAL BENGAL	Rangabati	Pachamba...	...	...	...	...	...	...	...	...	...	...	0.40	30.34	49.74
		(Giridi)...	...	...	...	...	...	...	...	...	...	...	0.50	49.61	49.43
		Hazaribagh...	...	...	...	...	...	...	...	...	...	...	0.77	38.98	40.46
		Bemattur...	...	...	...	...	...	...	...	...	...	...	0.44	40.44	40.97
	Rangabati	Mahudi Hill...	...	...	...	...	...	...	...	...	...	...	0.39	48.40	48.98
		Jhoomra Hill...	...	...	...	...	...	...	...	...	...	...	?	32.03	?
		Bark...	...	...	...	...	...	...	...	...	...	...	?	47.09	?
		Chakra...	...	...	...	...	...	...	...	...	...	...	?	40.05	?
	Rangabati	Karagaha...	...	...	...	...	...	...	...	...	...	...	?	?	?
		Kamphar...	...	...	...	...	...	...	...	...	...	...	?	?	?
	Rangabati	Lohardugga...	...	...	...	...	...	...	...	...	...	...	0.24	40.74	48.19
		Kanai...	...	...	...	...	...	...	...	...	...	...	0.45	40.45	48.45
		Palamow...	...	...	...	...	...	...	...	...	...	...	0.70	33.07	44.79
		Silla...	...	...	...	...	...	...	...	...	...	...	?	30.20	?
	Rangabati	Belumat...	...	...	...	...	...	...	...	...	...	...	?	41.79	?
		Hosainabad...	...	...	...	...	...	...	...	...	...	...	?	39.48	?
		Gorak...	...	...	...	...	...	...	...	...	...	...	?	?	?
		?	?	?
	Rangabati	Chyabam...	...	...	...	...	...	...	...	...	...	...	1.05	60.08	55.40
		Chyabam...	...	...	...	...	...	...	...	...	...	...	?	?	?
		Chyabam...	...	...	...	...	...	...	...	...	...	...	?	?	?
		Chyabam...	...	...	...	...	...	...	...	...	...	...	?	?	?
	Rangabati	Chyabam...	...	...	...	...	...	...	...	...	...	...	?	?	?
		Chyabam...	...	...	...	...	...	...	...	...	...	...	?	?	?
		Chyabam...	...	...	...	...	...	...	...	...	...	...	?	?	?
		Chyabam...	...	...	...	...	...	...	...	...	...	...	?	?	?
	Rangabati	Chyabam...	...	...	...	...	...	...	...	...	...	...	?	?	?
		Chyabam...	...	...	...	...	...	...	...	...	...	...	?	?	?
		Chyabam...	...	...	...	...	...	...	...	...	...	...	?	?	?
		Chyabam...	...	...	...	...	...	...	...	...	...	...	?	?	?

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 13th May 1890.

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-
TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE
9TH OF MAY 1890.**

VERY unusual weather conditions have prevailed throughout the week, pressure, temperature and rainfall all differing largely from the normal. Over Bengal very little change has taken place, wind circulation being day after day south or south-west in Lower Bengal, south-east or east over the northern half of the province, and west in Chutia Nagpur; the sky has generally been clear and temperature high; rainfall has been almost entirely confined to East and North Bengal.

At the beginning of the week pressure was about a tenth of an inch below the normal, after a moderately rapid fall in the north-west, but on Sunday and Monday, the 4th and 5th, it again rose, and was very nearly normal on the latter. Temperature was more than 5° above the normal over the northern half of Bengal, but as rain was falling in North Bengal and scattered showers in East Bengal during the first three days of the week, the high temperatures were during these days chiefly confined to Behar, Chutia Nagpur, and South-West Bengal. After the 5th no more rain fell in East Bengal, but the somewhat scattered rainfall in North Bengal continued throughout. On the 6th a very rapid fall of pressure set in over Bengal, Burmah, and the Bay, resulting by the end of the week in a very large defect over the whole of this area. On the 7th weather became stormy on the Burmah coast. The fall of pressure was very rapid, wind force increased, and circulation became cyclonic round the depression, the centre of which was to the west of Diamond Island. Rain, generally heavy, fell at the Burmah stations. Defect had increased to nearly a quarter of an inch over the whole of East and North Bengal. The depression crossed the coast shortly afterwards, moving in a north-north-easterly direction, and broke up in Burmah on the following day. The chief influence of this storm on the weather in Bengal was seen in the calm weather while it was forming off Diamond Island, and afterwards when it had passed inland in the very strong winds which blew over East and South-West Bengal on Friday. The rain which has since been falling in East Bengal may also be due to the disturbed condition of the atmosphere consequent on the breaking up of the storm. During the last two days pressure was steadily rising, but defect was still over two-tenths of an inch in North Bengal, and was generally more than three-twentieths of an inch elsewhere. Temperature continued to be largely in excess, nearly 10° in South-West Bengal and from 6° to 10° elsewhere.

Pressure—As stated above, has been generally below the normal. Commencing with a defect of a tenth of an inch, it rose till almost normal, after which it fell very rapidly, giving in two or three days a defect varying from 0.15 inch to 0.25 inch. Means are, therefore, very largely in defect everywhere, generally more than a tenth of an inch, and in South-West, East and North Bengal and Assam nearly 0.15 inch.

Temperature—Has continued largely in excess throughout the week, and some very high maximum temperatures have been registered. The following stations have all reported temperature over 110° some time during the week:—Cuttack, Midnapore, Bankoora, Ranee-gunge, Dehree Gya, Bankipore, and Chyobassa. In Behar these highest temperatures were on the 6th and 7th, but elsewhere on the 9th. With the exception of the coast stations, temperature has at times been everywhere over 100° . The mean excess is almost everywhere more than 5° , and in South-West Bengal ranges from 7° to 9° . The mean for South-West Bengal is 92° , South Behar 94.2° , and Chutia Nagpur 90.5° . Elsewhere it is under 90° . The largest mean excess is 7° for South-West Bengal, South Behar is next 6.8° , Chutia Nagpur 6.1° , East Bengal, North Behar, and Assam more than 5° , North Bengal 4.2° , and Orissa 3.5° .

Rainfall—Has been chiefly confined to East and North Bengal. In the latter showers fell every day of the week, and in the former during the first three days, while in the other districts very scattered rain was received. In Orissa and Chutia Nagpur no rain fell, in Behar less than a tenth of an inch, in South-West Bengal one-tenth, in North Bengal 1.18 inches, and East Bengal .55 inch. In South-West and East Bengal defect is about an inch and-a-half, and in the other districts about half an inch. The heaviest falls in North Bengal were in Rungpore and Cooch Behar, Ulipore 6.4 inches, Mickligunge 4 inches, Rungpore 3.6 inches, and Bhowanigunge 3.5 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 9th of May 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages for week.				Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 1st of May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average.		Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.	
Orissa	118°4	79°7	85°3	81°8	86°5	+3°3	NH	0°57	-0°57	0°3	1°5	-1°5	NH	1°09	64°78	57°75	
South-West Bengal	110°5	77°8	105°2	80°9	92°0	+7°1	0°10	1°44	-1°34	0°3	2°1	-1°8	0°23	1°80	58°18	58°21	
East Bengal	100°8	76°8	93°0	78°6	85°3	+5°3	0°55	2°18	-1°23	0°3	2°9	-2°4	1°03	2°78	84°80	84°90	
North Bengal	101°3	67°7	93°1	77°9	85°0	+4°3	1°18	1°00	-0°48	1°3	2°5	-0°7	1°80	2°00	78°81	78°83	
North Behar	106°3	66°8	108°9	75°9	90°3	+5°5	0°06	0°54	-0°36	0°1	1°1	-1°0	0°06	0°80	58°28	51°21	
South Behar	111°6	74°8	107°9	86°5	94°2	+6°5	0°03	0°03	-0°40	0°1	1°0	-0°9	0°03	0°40	64°77	45°81	
Chutia Nagpur	106°0	74°9	103°4	77°5	90°4	+6°1	NH	0°57	-0°57	0°0	1°3	-1°3	NH	0°50	64°16	55°11	
Assam	101°62	70°4	91°4	74°6	82°9	+5°3											

* Chyabana not included.

METEOROLOGICAL OFFICE, BENGAL;
The 13th May 1890.

C. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 4th to 10th May 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.						HYGROMETRY.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
May 1890 ...	4th ...	29.741	69.0	97.2	16.4	50.8	91.6	82.5	.969	78.9	67	NH
" " ...	5th ...	.722	90.2	100.0	19.6	80.4	94.6	82.5	.948	77.6	80	"
" " ...	6th ...	.667	91.5	103.0	23.0	80.0	94.6	83.5	.999	79.2	63	"
" " ...	7th ...	.667	92.4	104.0	23.2	80.8	94.6	82.5	.948	77.6	69	"
" " ...	8th ...	.657	95.6	104.2	25.2	81.0	95.6	82.5	.935	77.2	66	"
" " ...	9th ...	.607	90.6	100.0	15.8	81.2	93.4	81.5	.916	76.6	58	"
" " ...	10th ...	.636	92.7	103.0	20.7	82.3	94.6	81.5	.900	76.1	56	"

The mean 10 A.M. pressure of the seven days Inches.
29.642

The mean temperature of the seven days 91.4

The extreme variation of temperature 26.2

The maximum temperature 106.2

The mean 10 A.M. relative humidity of the seven days %
60

The total fall of rain from 4th to 10th May 1890 Inches.
Nil.

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 13th May 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 26th April 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 26th April 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 16.4 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 4.1 lower than the average rate of the corresponding weeks of the past five years, and is also lower than the rate of the corresponding week of any of the past five years, with which comparison is instituted, *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Ratio of births per 1,000 of the population per annum	20.5	19.1	19.1	19.0	20.1	20.5	16.4

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	5th April 1890.	12th April 1890.	19th April 1890.	26th April 1890.		5th April 1890.	12th April 1890.	19th April 1890.	26th April 1890.
Burdwan	25.9	10.7	30.5	22.9	Narainganj	20.7	26.3	41.4	24.8
Midnapore	10.8	10.8	10.5	17.0	Chittagong	4.7	9.4	15.3	11.7
Hughli and Chinsurah	23.0	24.4	24.8	34.5	Comilla	50.1	...	11.6	30.4
Rampur	31.4	11.8	37.3	9.8	Panna	6.8	13.0	7.8	0.2
Uttarpara	0.4	...	18.9	8.4	Gya	10.4	19.1	15.7	21.9
Howrah	10.8	14.8	17.9	13.2	Arrah	14.2	10.8	14.4	10.8
Bali	7.0	14.0	16.5	7.0	Muzaffarpore	9.7	12.2	13.4	10.9
Kishnagar	9.5	18.0	22.7	3.8	Darbhanga	18.1	22.0	21.2	21.3
Ranaghat	18.0	20.9	24.0	12.0	Chupra	14.1	3.0	9.1	22.1
Ranipore	14.0	17.3	18.5	7.0	Manikpur	10.0	14.5	21.7	18.1
Jessore	12.2	18.4	18.4	0.1	Monohyr	20.8	17.3	25.3	19.0
Rampur Baulah	20.4	22.0	21.5	34.2	Purneah	13.9	17.3	24.2	34.1
Darjiling	14.8	14.9	14.8	7.4	Poor	12.6	16.8	21.0	18.9
Dacca	8.4	14.9	10.0	23.4					

It will be seen that last week the highest birth-rate was returned from Purneah (38.1) and the lowest from Kishnagar (3.8).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 29.2 per 1,000 of the population. The rate of the week is 3.8 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1885, — *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Ratio of deaths per 1,000 of the population per annum	24.1	22.3	23.0	19.6	24.0	22.4	29.2

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	5th April 1890.	12th April 1890.	19th April 1890.	26th April 1890.		5th April 1890.	12th April 1890.	19th April 1890.	26th April 1890.
Burdwan	27.5	32.0	29.0	22.8	Narainganj	8.3	61.4	15.2	8.3
Midnapore	12.4	31.1	20.1	13.9	Chittagong	4.7	9.4	9.4	21.1
Hughli and Chinsurah	32.8	30.7	35.8	55.2	Comilla	27.0	19.3	11.6	11.6
Rampur	27.3	31.4	47.1	40.1	Panna	11.4	23.9	20.6	40.8
Uttarpara	20.0	22.3	...	42.7	Gya	70.2	61.5	44.4	34.2
Howrah	20.3	21.8	30.0	10.5	Arrah	9.6	12.0	28.7	23.5
Bali	51.0	24.6	21.1	10.5	Muzaffarpore	13.4	12.2	18.9	19.0
Kishnagar	7.0	17.0	11.4	7.6	Darbhanga	17.3	18.1	25.3	24.4
Ranaghat	6.0	18.0	6.0	...	Chupra	12.1	3.0	9.1	22.1
Ranipore	10.5	8.7	8.4	5.3	Manikpur	8.1	21.5	20.0	34.4
Jessore	14.4	31.1	42.8	18.4	Monohyr	23.6	24.0	24.9	27.1
Rampur Baulah	24.2	30.4	20.2	30.8	Purneah	17.3	31.2	34.6	21.2
Darjiling	20.6	14.1	10.3	10.7	Poor	20.9	26.7	28.7	44.1
Dacca	13.0	22.1	15.0	45.3					

It will be seen that last week the highest mortality occurred in the town of Darjiling (103.7) and the lowest in Santipore (5.3). No deaths were registered during the week in Itanaghat town.

Measured by last week's mortality, the highest annual death-rates from cholera, fever and other causes were as follows:—

Cholera.		Fever.		Other causes.	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Hughli and Chinsurah	31.2	Darjiling	89.9	Serampore	17.7
Patna City	20.8	Utterpara	87.7	Bhagulpore	11.8
Chupra	5.0	Arrah	82.8	Monghyr	10.8
Bhagulpore	4.5	Rampore Beaulah	81.5		
Howrah	2.9	Purneah	37.7		
		Poori	25.2		
		Gya	24.6		
		Monghyr	20.8		
		Durbhanga	20.5		

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 5.6 from cholera, against 5 per 1,000 in the preceding week; .7 from small-pox, against 1.6; 15.2 from fever, against 14.6; 1.7 from bowel-complaints, against 2.4; .4 from injury, against .2; and 5.6 from other causes, against 5.2 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

According to Sex.		According to Class.		According to Age.	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	30.7	Hindus	29.4	Under 1 year	106.7
Females	27.6	Mahomedans	29.6	1 and under 5 years	37.6
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	111	Other classes	76.8	5 " 10 "	16.9
				10 " 15 "	9.2
				15 " 20 "	15.4
				20 " 30 "	18.5
				30 " 40 "	23.4
				40 " 50 "	20.8
				50 " 60 "	31.6
				60 years and upwards	83.1

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Sanitary Commissioner for Bengal.

The 12th May 1890.

DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.				MORTALITY ACCORDING TO—										SEX.		Ratio of male deaths to female deaths, calculated on the basis of the number of deaths in the population.				
		Males.	Females.	Total.	NUMBER OF—		RATIO PER 1,000 OF POPULATION PER ANNUM.		DISEASE FROM—										Males.	Females.					
DISEASE.	RATIO PER 1,000 OF POPULATION PER ANNUM.	DEATHS FROM—										RATIO PER 1,000 OF POPULATION PER ANNUM.		NATURAL DEATHS PER 1,000 OF POPULATION PER ANNUM.		Males.	Females.	RATIO PER 1,000 OF POPULATION PER ANNUM.		Ratio of male deaths to female deaths, calculated on the basis of the number of deaths in the population.					
		Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Uterine.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Uterine.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Natural deaths per 1,000 of population per annum.	Ratio of male deaths to female deaths, calculated on the basis of the number of deaths in the population.	
Burdwan	19,023	16,017	34,040	10	25	153	7-6	30-9	200	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Midnapore	16,977	16,023	32,000	4	7	11	10-6	27-0	87	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Barhali	13,624	12,022	25,647	13	8	21	13-1	24-5	102	19	6	1	1	1	1	1	1	1	1	1	1	1	1	1	
Sonarpore	12,550	12,027	24,046	2	2	5	8-9	9-4	140	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Howrah	21,123	27,000	48,123	14	9	20	12-2	23-4	120	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Medinipur	18,700	18,970	37,670	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Jeonore	16,766	16,766	33,532	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Darjiling	4,570	2,480	7,050	20	16	26	13-0	10-1	125	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Dacca	42,782	37,579	80,361	2	4	6	8-5	10-5	150	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Chittagong	13,340	8,790	22,130	3	5	8	11-8	20-4	66	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Tipperah	8,183	5,383	13,566	3	5	8	11-8	20-4	66	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Pahar	78,783	81,075	159,858	11	8	19	3-6	2-6	157	61	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Gya	38,290	27,531	65,821	16	10	30	10-9	21-9	100	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Shahabad	30,800	22,508	53,308	4	5	9	4-8	6-1	50	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Moulvibazar	23,004	19,038	42,042	4	5	9	4-8	6-1	50	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Durban	23,774	23,322	47,096	13	14	27	10-2	21-2	93	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Baran	25,116	24,484	49,600	9	13	22	9-0	13-1	69	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Shahpur	25,640	27,813	53,453	14	6	20	12-7	6-4	233	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Manikpur	20,154	22,596	42,750	11	10	21	9-9	9-0	110	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Purneah	8,465	6,653	15,118	7	4	11	24-2	13-9	176	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Poori	12,947	11,057	24,004	7	3	9	14-7	4-3	356	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Total	556,966	510,808	1,067,774	179	106	325	8-8	7-0	116	116	14	310	30	6	114	596	5-0	7	13-2	1-7	4	5-6	59-6	59-6	111

DISTRICTS.		NAMES OF MUNICIPALITY.		Class.										Age.										MORTALITY ACCORDING TO-																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
				Deaths above—					Ratio per 1,000 of Popula- tion per annum.					Deaths					Ratio per 1,000 of Population per annum.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
				Hindus.	Muslims.	Buddhists.	Other classes.	Christians.	Hindus.	Muslims.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up.	Hindus.	Muslims.	Buddhists.	Other classes.	Christians.	Hindus.	Muslims.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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OFFICE OF SANITARY COMMISSIONER FOR BENGAL.

W. H. GREGG, Dip. Publ. Health, Camb.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 10th May 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 10TH MAY 1890.			WEEK ENDING SATURDAY, THE 11TH MAY 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	269	76,185	1,189	163	43,425	695
Jute ...	23	12,050	187	7	2,275	51
Firewood ...	149	91,276	1,359	61	27,125	413
Other articles ...	707	1,95,060	2,776	535	1,60,700	2,199
Total ...	1,148	3,76,160	5,511	766	2,35,125	3,288

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 3rd May 1890, on 1,625½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchan- dise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	278,046	2,05,774 8 0	24,41,000 30	6,31,083 13 0	31,100 8 0	9,18,947 12 0	65,001 4	100,401 1	165,582 5
Or per mile of railway ...	...	174 14 0	...	413 10 10	13 13 8	562 6 3	...	...	...
For previous 17 weeks of half- year ...	4,363,863	40,80,546 7 0	4,40,00,071 10	1,04,40,165 0 0	3,38,364 9 0	1,87,68,176 0 9	1,115,106	1,636,256 2	2,751,662 2
Total for 18 weeks ...	4,641,909	42,86,320 15 0	4,73,46,765 0	1,10,40,324 12 0	3,59,474 1 9	1,90,87,123 12 9	1,181,197 1	1,757,045 3	2,938,242 4
COMPARISON.									
Total for corresponding week of previous year ...	385,154	2,64,990 10 0	27,81,866 0	6,68,675 13 6	16,982 13 6	9,49,739 5 0	63,557	104,066	167,623
Per mile of railway correspond- ing week of previous year ...	...	173 11 4	...	437 0 4	11 13 5	582 9 1	...	...	...
Total to corresponding date of previous year ...	4,782,409	44,65,606 0 3	4,83,02,484 0	1,00,96,149 10 8	2,96,830 5 5	1,67,39,655 5 1	1,187,484	1,747,875	2,935,359

*Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works
Department Circular No. XXI. Railway, dated 23rd July 1883.*

RECEIPTS FOR WEEK ENDING 4TH MAY 1890.			RECEIPTS FOR WEEK ENDING 3RD MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 4TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 3RD MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
1,436½	Rs. 9,40,739	Rs. 653	1,512½	Rs. 9,16,946	Rs. 602	1,536½	Rs. 46,13,773	Rs. 605	1,525½	Rs. 45,15,536	Rs. 593	Rs.	Rs. 16,236

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 3rd May 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Totalearnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	13,601	6,089 4 0	49,548 10	4,127 15 0	41 4 0	10,568 7 0	1,511	683	2,194
Or per mile of railway	236	106 10 1	860 30	72 3 3	0 11 6	179 8 3			
For previous 17 weeks of half-year	228,481	1,16,782 15 0	8,33,540 0	53,045 8 0	527 12 0	1,70,485 3 0	22,400	12,047	34,447
Total for 18 weeks	242,082	1,22,872 3 0	8,83,108 10	57,173 7 0	669 0 0	1,80,754 10 0	24,000	12,730	36,730
COMPARISON.									
Total for corresponding week of previous year	11,636	5,302 15 9	49,953 10	3,686 11 0	30 11 9	8,969 8 6	1,486	1,284	2,770
Per mile of railway corresponding week of previous year	202	92 11 4	873 20	63 6 6	0 11 1	156 13 11			
Total to corresponding date of previous year	239,644	1,40,550 7 0	7,48,557 30	44,656 8 0	1,414 11 9	1,86,648 10 0	22,220	12,804	35,024

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 6TH MAY 1889.			RECEIPTS FOR WEEK ENDING 3RD MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 6TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 3RD MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	3,969	157	57½	10,208	180	57½	43,968	171	57½	52,156	163	2,186	

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 3rd May 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	19,972	5,235 13 0	11,081 0	405 4 0	8 6 0	5,708 7 0	890	78	968
Or per mile of railway	887	237 14 9	492 0	18 4 2	0 0 0	253 8 11			
For previous 17 weeks of half-year	278,932	1,02,817 8 0	2,44,183 30	8,354 6 0	177 5 0	1,11,540 1 0	15,008	1,747	16,755
Total for 18 weeks	298,904	1,08,111 3 0	2,55,264 30	8,760 10 0	185 11 0	1,17,667 8 0	15,898	1,825	17,723
COMPARISON.									
Total for corresponding week of previous year	21,134	5,475 7 9	9,768 30	388 4 0	10 1 0	6,346 12 0	911	97	1,008
Per mile of railway corresponding week of previous year	940	246 3 7	432 0	16 8 10	0 7 3	282 3 8			
Total to corresponding date of previous year	481,357	1,11,388 0 3	1,72,758 10	6,289 18 0	128 2 0	1,17,921 3 0	16,607	1,863	17,710

Approximate Statement of gross receipts of the Tarkeessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 6TH MAY 1889.			RECEIPTS FOR WEEK ENDING 3RD MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 6TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 3RD MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,667	252	22½	5,708	257	22½	30,748	230	22½	36,794	238		606

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., Dacca, K. AND D., AND ASSAM-BIHAR SECTIONS.)

Approximate Return of Traffic for week ended 26th April 1890, on 747 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boats.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	147,555	75,300 0 0	5,67,970 0	97,230 0 0	15,000 0 0	1,86,210 0 0	22,997	20,533	43,530
Or per mile of railway...	198	101 0 0	757 0	130 0 0	12 0 0	233 0 0	...	...	...
For previous 16 weeks of half-year...	2,545,160	12,55,000 0 0	81,89,110 0	14,64,700 0 0	3,05,034 0 0	32,22,753 0 0	289,551	475,441	764,992
Total for 17 weeks...	2,692,710	13,30,300 0 0	87,57,080 0	17,02,029 0 0	3,20,034 0 0	34,10,907 0 0	291,548	505,975	797,523
COMPARISON.									
Total for corresponding week of previous year...	156,537	66,303 0 0	5,48,227 0	84,323 0 0	23,718 0 0	1,74,444 0 0	21,463	23,205	44,668
Per mile of railway corresponding period of previous year...	198	98 0 0	690 0	130 0 0	11 0 0	235 0 0	...	...	...
Total to corresponding date of previous year...	2,491,684	12,53,410 0 0	84,80,430 0	14,23,334 0 0	3,02,323 0 0	30,19,047 0 0	265,220	412,686	777,906

* Audited up to week ending 1st March 1890.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 27TH APRIL 1890.			RECEIPTS FOR WEEK ENDING 26TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
673	Rs. 1,74,444	Rs. 259	747	Rs. 1,86,210	Rs. 249	673	Rs. 6,13,538	Rs. 226	747	Rs. 6,68,369	Rs. 226	Rs. 54,830	Rs.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 26th April 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	24,140	8,610 0 0	48,650 0	2,010 0 0	170 0 0	11,790 0 0	3,738	1,937	5,675
Or per mile of railway...	193	68 0 0	389 0	16 0 0	1 0 0	94 0 0	...	...	...
For previous 16 weeks of half-year...	448,804	1,55,034 0 0	9,72,247 0	40,811 0 0	923 0 0	2,05,463 0 0	58,167	30,364	88,531
Total for 17 weeks...	472,944	1,63,644 0 0	9,17,897 0	42,821 0 0	1,093 0 0	2,17,258 0 0	61,902	32,301	94,203
COMPARISON.									
Total for corresponding week of previous year...	27,714	9,294 0 0	71,941 0	3,400 0 0	41 0 0	14,735 0 0	3,733	2,143	5,876
Per mile of railway corresponding period of previous year...	222	75 0 0	576 0	43 0 0	...	115 0 0	...	...	...
Total to corresponding date of previous year...	465,230	1,60,910 0 0	909,280 0	32,844 0 0	4,568 0 0	2,08,318 0 0	62,425	32,033	94,458

* Audited up to week ending 1st March 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 27TH APRIL 1890.			RECEIPTS FOR WEEK ENDING 26TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
125	Rs. 14,735	Rs. 119	125	Rs. 11,790	Rs. 94	125	Rs. 56,477	Rs. 101	125	Rs. 46,756	Rs. 98	Rs.	Rs. 4,721

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 26th April 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	16,360	5,910 0 0	15,970 0	1,320 0 0	100 0 0	7,330 0 0	2,480	496	2,976
Or per mile of railway ...	181	69 0 0	184 0	15 0 0	1 0 0	85 0 0	.....	.....	.....
For previous 16 weeks of half-year ...	277,510	96,261 0 0	4,13,160 0	80,636 0 0	2,386 0 0	1,38,806 0 0	38,618	11,478	50,096
Total for 17 weeks ...	292,870	1,02,171 0 0	4,32,030 0	81,956 0 0	2,686 0 0	1,46,133 0 0	41,698	12,100	53,798
COMPARISON.									
Total for corresponding period of previous year ...	14,978	4,461 0 0	8,166 0	783 0 0	269 0 0	5,473 0 0	2,495	1,000	3,495
Per mile of railway corresponding period of previous year ...	166	52 0 0	96 0	9 0 0	3 0 0	64 0 0	.....	.....	.....
Total to corresponding date of previous year ...	268,877	88,471 0 0	1,08,100 0	17,034 0 0	2,773 0 0	1,02,378 0 0	41,290	12,236	53,526

* Audited up to week ending 1st March 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 27TH APRIL 1890.			RECEIPTS FOR WEEK ENDING 26TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH APRIL 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH APRIL 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
26	5,473	64	26	7,330	85	26	19,681	87	26	27,970	81	5,249	.....

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 3rd May 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,447	1,208 0 0	6,449 0	449 0 0	17 0 0	1,674 0 0	549	254	763
Or per mile of railway ...	124	44 0 0	238 0	16 0 0	1 0 0	61 0 0	.....	.....	.....
For previous 16 weeks of half-year ...	55,231	19,907 0 0	2,23,606 0	13,478 0 0	1,755 0 0	22,180 0 0	8,435	8,949	16,644
Total for 17 weeks ...	58,678	21,115 0 0	2,30,055 0	13,927 0 0	1,772 0 0	23,952 0 0	8,944	8,303	17,247
COMPARISON.									
Total for corresponding week of previous year ...	2,761	1,016 0 0	7,838 0	309 0 0	8 0 0	1,814 0 0	509	254	763
Per mile of railway corresponding week of previous year ...	101	37 0 0	288 0	22 0 0	.....	60 0 0	.....	.....	.....
Total to corresponding date of previous year ...	59,008	22,023 0 0	2,01,619 0	12,186 0 0	1,432 0 0	23,652 0 0	9,016	8,011	17,027

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 4TH MAY 1890.			RECEIPTS FOR WEEK ENDING 3RD MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 4TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 3RD MAY 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	1,616	60	27½	1,674	61	27½	8,018	69	27½	8,126	60	124	.....

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 3rd May 1890, on 273 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	40,366	16,475 0 0	2,37,046 0	27,453 0 0	3,065 0 0	46,976 0 0	4,923	9,781	15,704
Or per mile of railway ...	148	60 0 0	868 0	100 0 0	4 0 0	164 0 0			
For previous 10 weeks of half-year ...	793,274	3,36,232 0 0	43,61,176 0	4,08,123 0 0	51,120 0 0	8,76,461 0 0	86,261	161,236	247,497
Total for 17 weeks ...	833,660	5,42,710 0 0	45,98,222 0	5,23,566 0 0	55,191 0 0	9,23,467 0 0	91,234	170,077	301,301
COMPARISON.									
Total for corresponding week of previous year ...	44,373	16,615 0 0	2,11,639 0	17,783 0 0	3,967 0 0	36,143 0 0	4,733	9,964	14,697
Per mile of railway corresponding week of previous year ...	163	60 0 0	776 0	65 0 0	1 0 0	130 0 0			
Total to corresponding date of previous year ...	768,964	2,91,527 0 0	25,91,943 0	2,44,581 0 0	60,327 0 0	5,96,335 0 0	66,661	98,726	164,487

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 4TH MAY 1890.			RECEIPTS FOR WEEK ENDING 3RD MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 4TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 3RD MAY 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	36,143	140	273	46,976	172	273	1,83,966	135	273	2,30,648	160	46,693	.....

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 13th April 1890	...	...	8,640
Corresponding period of 1889	...	...	11,743
Decrease	...	...	3,103
Receipts per mile for week ending 13th April 1890	...	...	Rs. A. P. 169 6 7
Corresponding period of 1889	...	...	230 4 0
Decrease	...	...	60 13 5
Receipts from 1st January to 13th April 1890	...	...	1,28,430
Corresponding period of 1889	...	...	1,30,020
Decrease	...	...	1,590

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 19th April 1890	...	...	8,950
Corresponding period of 1889	...	...	10,927
Decrease	...	...	1,977
Receipts per mile for week ending 19th April 1890	...	...	Rs. A. P. 175 7 10
Corresponding period of 1889	...	...	214 4 4
Decrease	...	...	38 12 6
Receipts from 1st January to 19th April 1890	...	...	1,37,380
Corresponding period of 1889	...	...	1,40,947
Decrease	...	...	3,567



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, MAY 21, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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TRANSFER RULES FOR COLLEGES AND HIGH SCHOOLS.

GENERAL DEPARTMENT—EDUCATION.

Calcutta, the 20th May, 1890.

RESOLUTION.

READ again the following papers:—

Resolution recorded by the Government of India in the Home Department, No. ⁶/₃₇₁₋₃₈₃, dated the 17th August 1889.

Letter to the Director of Public Instruction, No. 76T—G, dated the 7th October 1889.

Transfer rules for colleges and schools appended to the Resolution recorded by this Government, dated the 13th September 1887.

Read also—

Letter from the Director of Public Instruction, No. 1995, dated 16th April 1890.

In the Resolution of the Home Department cited in the preamble, the Government of India suggested that inter-school rules, defining the conditions under which pupils should be allowed to pass from one school to another, should be extended to all schools aided by public funds, as a condition of the continuance of such aid; and that the Senates of the Universities should be invited to use their influence to procure the adoption of this system in schools and colleges which do not receive aid from Government. The essential points which it is necessary to secure by the inter-school rules were further stated to be, that without the consent of the Educational authorities a boy shall not be taken into a school who has been dismissed from another school for misconduct; that failing to pay his school fees in his former school shall debar a boy from admission to another school, except under similar consent of the Educational

authorities; and that, if received into another school, a boy shall not be placed in a higher class than the class he was in before leaving the other school, except at the beginning of a new term.

2. In accordance with the above views, the Director of Public Instruction has submitted revised inter-school rules, as appended to this Resolution, and has suggested that Circle Inspectors should be authorised to issue simplified rules based upon them to govern the transfer of pupils in middle and primary schools. The Lieutenant-Governor approves the rules and the suggestion of the Director of Public Instruction.

3. The Syndicate of the Calcutta University have expressed their desire to co-operate fully with the Education Department in the maintenance of discipline, and are prepared to give their careful attention to any case of infringement of the rules that may be reported to them.

ORDER.—Ordered, that a copy of the Resolution and of the Rules be forwarded to the Director of Public Instruction for information and guidance.

Ordered also, that a copy of the Resolution, as well as of the Rules, be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

TRANSFER RULES FOR COLLEGES.

I.—A student, before he is admitted to a college, shall be required to produce a transfer certificate from the Principal of the college in which he has last been reading. But if he applies at the beginning of a session, without having joined any other college, for admission to the first-year or to the third-year class, the certificate of having passed the last Entrance or First Arts Examination respectively shall be accepted in lieu of such certificate. A student who has failed at the First Arts or the B. A. Examination, and has not meanwhile joined any other college, may be admitted in the following session to the second or fourth-year class of the college, on production of the Registrar's receipt. The fact of his admission, with the date, should be written across the face of the receipt.

II.—The certificate shall run as follows:—

Certified that _____ son of _____
an inhabitant of _____ has been a student in the _____ class of the
College from _____ to _____. His character and conduct have been
_____ All sums due by him to the College have been paid, including college fees
up to _____ His scholarship of Rs. _____ per mensem has been drawn and paid to him
in this college up to _____ His attendance in each course of lectures is
given below:—

Subject.

Number of lectures delivered.

Number of lectures attended.

Dated

Principal.

III.—Application for a transfer certificate must be made, either personally or by letter (registered, if necessary) to the Principal of the college; and when so made the certificate is to be given without any avoidable delay. The only grounds on which it can be refused are (1) gross misconduct; (2) failure to pay the sums due to the college, including tuition fees and fines and transfer fee (if any). If a certificate is refused, the cause of refusal shall be notified in writing to the applicant.

IV.—Any instance of "gross misconduct" on the part of a student, whether followed by expulsion or not, must be at once notified to the Department, failing which no future action can be taken on it. A student expelled for misconduct cannot be admitted to another college without the express sanction of the Director of Public Instruction.

V.—For the purposes of the transfer certificate, the date on which a student presents his application for transfer, or the date of receipt of the letter (Rule III), shall be regarded as the date upon which his connection with a college ceased, and no fee shall be charged to him for any subsequent month. But if the student does not pay the sums due from him to the college within three days of his receiving intimation of their amount, he shall be treated as "absent without notice" until such sums are paid, subject (as regards any further sums so accruing) to the limit stated in Rule VI.

VI.—A student quitting a college without notice shall be liable to pay fees, together with fines for absence, for one month subsequent to that in which he last attended the college, after which his connection with the college shall be considered to have ceased.

VII.—A student quitting a college, except at the close of a session, shall be liable to pay a transfer fee before obtaining his certificate. The transfer fee shall not (except under special orders of the Department in the case of free colleges) exceed the ordinary monthly fee of the class.

VIII.—For students sent up to the First Examination in Arts or to the B.A. Examination, the session ends in May; for other students it ends in February, the month preceding that in which the new second and fourth-year classes are formed.

IX.—If a student withdraws from a college after the Durga Puja Vacation, he shall be liable to pay fees in that college up to the end of the session.

X.—A student shall not be sent up to the University examination until he has paid all sums due to the institution in which he has been reading, including fees up to the end of the session in May.

XI.—When a student has held a scholarship, free studentship, or half-pay studentship, under express stipulation in writing, signed by himself, that the whole or a portion of the sum drawn by or remitted to him shall be refunded to the college in case of withdrawal from it within a certain period, the transfer certificate may be withheld until the sums so due have been repaid, provided that the amount so claimed shall not exceed the amount actually drawn or remitted.

XII.—The transfer of Government scholarship-holders shall be subject to the previous sanction of the Director of Public Instruction, which will be withheld unless satisfactory reasons are assigned for the transfer.

XIII.—A student who has failed at the test examination (if any is held) of his college shall not be sent up to the University examination as a student of any other college.

XIV.—All questions arising between one Principal and another respecting the enforcement of these rules shall be referred as soon as possible to the Director of Public Instruction.

XV.—If a student be found producing a false document or making a false statement as to his attendance at any college, he shall be liable to expulsion and shall be reported to the Department.

XVI.—Wilful transgression or colourable evasion of any of the foregoing rules will render a college liable to forfeit the right of sending up candidates for senior scholarships and to be reported to the University for further penalties.

TRANSFER RULES FOR HIGH SCHOOLS.

I.—A student, before he is admitted to a high school, shall be required to produce a transfer certificate from the head-master of the school (of whatever class) in which he has last been reading. He should be accompanied by, or should present a letter of application from, his father or *bond fide* guardian, whose name should be registered in the admission book of the school. His father's name and place of residence should invariably be registered, in order to secure identification. If he has failed at the previous Entrance examination, and applies for admission in the following session without having joined any other school, the Registrar's receipt shall be accepted in lieu of a certificate. The fact of his admission, with the date, should be written across the face of the Registrar's receipt.

II.—The certificate shall run as follows:—

"Certified that _____, son of _____, an inhabitant of _____, was in the _____ class of the school up to _____, and left with a _____ character. All sums due by him to the school have been paid. He has (or has not) passed the annual examination for promotion to the _____ class. His age on leaving is believed to have been _____ years months."

Dated _____

Head Master.

III.—Application for the transfer of a student must be made by his parent or *bond fide* guardian, either personally or by letter (registered, if necessary), to the head-master of the school which he is leaving; and when so made the certificate is to be given without any avoidable delay. The only grounds on which it can be refused are (1) gross misconduct, (2) failure to pay the sums due to the school, including schooling fees and fines and transfer fee (if any). If a certificate is refused, the cause of refusal shall be notified in writing to the applicant. If the certificate is not received within three days of the payment by the student of the amount (if any) due to the school, the matter may be referred to the Inspector of Schools, or to the Director of Public Instruction, as laid down in Rule XII.

IV.—Any instance of "gross misconduct" on the part of a student, whether followed or not by expulsion, must be at once reported to the Department, failing which no future action can be taken on it. A student expelled for misconduct cannot be admitted to another school without the express sanction of the Department.

V.—For the purposes of the transfer certificate, the date on which a student presents his application for transfer, or the date of the receipt of the letter (Rule III), shall be regarded as the date upon which his connection with the school ceased; and no fee shall be charged to him for any subsequent month. But if the student does not pay the sums due from him to the school within three days of his receiving intimation of their amount, he shall be treated as "absent without notice" until such sums are paid, subject (as regards any further sums so accruing) to the limit stated in Rule VI.

VI.—A student quitting a school without notice shall be liable to pay fees, together with fines for absence, for one month subsequent to that in which he last attended the school, after which his connection with the school shall be considered to have ceased.

VII.—A student quitting a school, except at the close of a session, shall be liable to pay a transfer fee before obtaining his transfer certificate. The transfer fee shall not (except under special orders of the Department in the case of free schools) exceed the ordinary monthly fee of the class.

VIII.—The session of each school ends in the month in which the annual examinations for promotion are held, and preceding that in which the new classes are formed. For students sent up to the Entrance examination, the session ends in May.

IX.—If a student withdraws from a school after the Durga Puja vacation, he shall be liable to pay fees in that school up to the end of the session.

X.—A student shall not be sent up to the Entrance examination until he has paid all sums due to the institution in which he has been reading, including fees up to the end of the session in May.

XI.—When a student of the first or second class has held a scholarship, free studentship, or half-pay studentship, under express stipulation in writing, signed by himself and his guardian, that the whole or a portion of the sum drawn by or remitted to him shall be refunded to the school in case of withdrawal from it within a certain period, the transfer certificate may be withheld until the sums so due have been repaid, provided that the amount so claimed shall not exceed the amount actually drawn or remitted.

XII.—The transfer of Government scholarship-holders and free students shall be subject to the previous sanction of the Inspector or Joint Inspector of Schools, or (in the case of schools attached to first-grade colleges) of the Director of Public Instruction, which will be withheld unless satisfactory reasons are assigned for the transfer.

XIII.—A student shall not, on admission to a school, be placed in a class higher than that in which he was in the school he has quitted, or if he has passed the annual examination for promotion, than the next higher class. This rule shall apply to admissions to the three highest classes. Thus, a student failing at the annual examination of the fourth class of one school cannot be admitted to the third class of another.

XIV.—If a student has been absent from a school for a full year, and if the Inspector of Schools or the Director of Public Instruction (*vide* Rule XII) is satisfied that his absence was not due to misconduct or rustication, the preceding rule may, with the sanction of the Inspector or the Director, as the case may be, be relaxed in his favour.

XV.—The fact of a student applying for admission without having undergone the annual examination of his old school must be regarded, unless the reverse is certified to by his former head-master, as sufficient evidence of his not having been fit for promotion. He should not therefore be admitted into a class higher than that in which he was in the other school.

XVI.—After admission under the foregoing rules, no student shall be promoted to a higher class before the next annual examination of the school. The application of this and the preceding rule shall be confined to the three highest classes. (See illustration, Rule XIII.)

Note (1).—It would be a violation of this rule to send up a student to the Entrance examination before he has been promoted in due course to the first class of the school.

Note (2).—The annual examinations are held at various times from December to February. In the case of a student admitted under Rule XV, the "next annual examination" means the annual examination held in the following session.

Note (3).—The annual examination will not be recognised in any school which has not been *bond fide* in existence from the beginning of the session.

XVII.—The *provisional* admission of a student to a school will not be recognised. No student will be regarded as belonging to a school unless and until his name is entered both in the admission book and on the register of a certain class.

XVIII.—A student who has failed at the test examination of his school shall not be sent up to the Entrance examination as a student of any other school, nor shall he be sent up to that examination as a private student.

XIX.—All questions arising between one head-master and another respecting the enforcement of these rules shall be referred, as soon as possible, to the Inspector or the Director (*vide* Rule XII).

XX.—If a student be found producing a false document or making a false statement as to his attendance at any school, he shall be liable to expulsion, and shall be reported to the Department.

XXI.—Wilful transgression or colourable evasion of any of the foregoing rules will render a school liable to forfeit the right of sending up candidates for junior scholarships, and to be reported to the University for further penalties.

LIBERALITY OF BABU JANOKI BALLAV SEN, ZEMINDAR OF
DIMLA, IN THE DISTRICT OF RUNGPORE.No. M^{1G}₄2, dated Darjeeling, the 15th May 1890.From—H. J. S. COTTON, Esq., Secretary to the Govt. of Bengal, Municipal Dept.,
To—The Commissioner of the Rajshahye Division.

I AM directed to acknowledge the receipt of your letter No. 66J, dated 17th April 1890, in which you bring to the notice of Government the liberality of Babu Janoki Ballav Sen, Zemindar of Dimla, in the district of Rungpore, in subscribing Rs. 20,000 in aid of the drainage scheme now in progress at Rungpore, and Rs. 20,000 towards the native sanitarium at Darjeeling. The latter amount will, in accordance with the wish of the donor, be devoted to the construction of a building for the exclusive accommodation of Hindu patients, to be called the "Janoki Ballav House."

2. In reply, I am directed to request that you will be so good as to convey to Babu Janoki Ballav Sen the thanks of the Lieutenant-Governor for his munificent gifts, and to say that this letter will be published in the *Calcutta Gazette*.

REPORT ON THE STATE OF THE SALT MARKET FOR THE
FOURTH QUARTER OF 1889-90.

No. 353B, dated Calcutta, the 12th May 1890.

From—K. G. GUPTA, Esq., Offg. Secretary to the Board of Revenue, L.P.,
To—The Secretary to the Government of Bengal, Financial Department.

I AM directed by the Board of Revenue to submit the following report on the state of the salt market for the fourth quarter of 1889-90, comprising the months of January, February and March 1890.

SALT.

THE HON'BLE SIR HENRY HARRISON, Kt.

2. The quantity of salt of every description cleared during the quarter under report amounted to 24,01,999 maunds 18 seers 6 chittacks against 24,38,503 maunds 14 seers 8 chittacks in the previous quarter, and 21,53,700 maunds 31 seers 13 chittacks in the corresponding quarter of the previous year; and the net amount of duty levied thereon was Rs. 56,82,037-13 against Rs. 57,16,963-2 in the previous quarter, and Rs. 51,04,003-12 in the corresponding quarter of the previous year.

3. The quantity of excise salt sold in Orissa during the quarter under review and the quantity which remained in store at the close of the quarter are shown in table I:—

TABLE I.

			Cuttack.			Pooree.			Balasore.		
			Mds. s. t.			Mds. s. t.			Mds. s. t.		
Balance at close of the last quarter			1,70,864	0	0	1,820	0	0
Manufactured or added during the quarter		
Total			1,70,864	0	0	1,820	0	0
Sales during the quarter			186,886	0	0	900	0	0
Wastage			1,737	0	0	.....	
Total			38,623	0	0	900	0	0
Balance at close of the quarter			1,32,241	0	0	1,620	0	0

4. The total sale of excise salt during the quarter under review amounted to 37,086 maunds against 15,629 maunds in the previous quarter, and 20,389 maunds in the corresponding quarter of the previous year.

5. The subjoined table shows in comparison the importations into the port of Calcutta and the total clearances of sea-imported salt during the quarter under review and the corresponding quarters of the previous two years:—

TABLE II.

	1887-88.		1888-89.		1889-90.	
	Fourth quarter.		Fourth quarter.		Fourth quarter.	
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Liverpool pungah	11,49,787	15,36,649	13,65,966	15,50,498	18,06,168	18,81,889
Foreign kurkutch	2,40,866	3,75,719	2,37,321	3,17,936	6,00,496	8,94,500
Indian ditto	2,21,005	1,58,754	2,10,703	97,430	1,02,303	1,12,303
Total	17,11,658	20,71,122	20,14,390	19,65,864	25,09,067	28,88,692

6. The following are the details of the Indian kurkutch salt shown in the above table:—

TABLE III.

	1887-88.		1888-89.		1889-90.	
	Fourth quarter.		Fourth quarter.		Fourth quarter.	
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Bombay	2,23,006	1,58,754	1,79,619	97,036	97,451	99,499
Vinayapatam	.....	.....	2,400	2,400	.....	.....
Coconada	.....	.....	28,974	28,974	20,000	20,000
Madras	.....	.....	.....	.....	6,000	6,000
Tatticorin	.....	.....	.....	.....	50	50
Colingapatam	.....	.....	.....	.....	50	50
Total	2,23,006	1,58,754	2,10,703	97,430	1,02,303	1,12,303

7. Table IV shows the quantity of sea-imported salt remaining in the warehouses at the close of the quarter as compared with the results of the previous four quarters:—

TABLE IV.

WAREHOUSES.	Fourth quarter of 1887-88.	First quarter of 1888-89.	Second quarter of 1888-89.	Third quarter of 1888-89.	Fourth quarter of 1888-89.
	Mds.	Mds.	Mds.	Mds.	Mds.
Saltas Government saltas	14,54,337	21,44,072	23,55,793	17,41,940	22,11,940
Chittagong ditto do.	2,25,634	1,51,567	1,43,580	97,547	2,21,633
Total	16,79,971	22,95,639	24,99,373	18,39,487	24,33,573

8. The despatches of salt from Calcutta by water and the three railways passing the several salt-pass stations into the interior of the country, both east and west of the river Hooghly, during the quarter under review and the corresponding quarters of the previous two years, are shown in the table below:—

TABLE V.

PERIOD.	Via Bankhall.	Via Bankrail.	Via Gowaahally.	Via Kidderpore.	Via Balliabhatia.	Via Ruttollah Ghaz.	By the East Indian Railway.	By the East and South Eastern Railways or via Chitpore.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Fourth quarter of 1887-88	9,13,506	1,50,072	1,06,256	50,800	4,50,000	7,405	9,16,237	2,04,000
Do. of 1888-89	3,79,585	1,51,317	94,763	76,000	4,40,000	2,000	8,00,000	1,70,000
Do. of 1889-90	1,87,400	1,42,000	96,100	70,000	5,37,541	2,007	6,94,316	1,60,000

9. The quantity of salt despatched by the East Indian Railway to stations beyond Buxar during the quarter under review amounted to 2,733 maunds 30 seers, as noted in the margin, against 2,126 maunds 10 seers in the previous quarter, and 3,948 maunds 30 seers in the corresponding quarter of the previous year.

	Mds.	s.
January ...	911	10
February ...	803	30
March ...	1,518	30
Total ...	2,733	30

10. The shipments of Liverpool salt for the port of Calcutta according to published market reports were as follow:—

	Tons.
January ...	33,530
February ...	30,890
March ...	15,500
Total ...	79,920

11. Table VI shows the market price per 100 maunds of Liverpool and other descriptions of salt at the close of each fortnight during the quarter as compared with those obtaining during the same period last year:—

TABLE VI.

DESCRIPTION OF SALT.	Prices on the 18th January		Prices on the 31st January		Prices on the 14th February		Prices on the 26th February		Prices on the 15th March		Prices on the 31st March	
	1889.	1890.	1889.	1890.	1889.	1890.	1889.	1890.	1889.	1890.	1889.	1890.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Liverpool punjab	95	105	95	100	95	95	94	95	92	89	91	91
French kurkutch	...	...	...	...	...	...	...	...	...	...	...	...
Jodda ditto	40	40	40	40	42	44	42	45	43	44	45	44
Ramday ditto	82	86	88	91	87	88	87	75	92	77	82	80
Malina ditto	...	...	...	...	...	...	...	...	...	...	...	...
Muscat ditto	...	50	63	47	60	47	61	40	61	40	61	51
Rock	78	145	73	143	73	130	75	150	75	130	75	130

12. The following table shows the quantity of sea-imported salt admitted into bond, and cleared from bond and shipboard, at Chittagong and Narain-gunge during the quarter under review and the corresponding quarter of 1888-89:—

TABLE VII.

PORT.	DESCRIPTION OF SALT.	ADMITTED INTO BOND.		CLEARED.	
		Fourth quarter of 1888-89.	Fourth quarter of 1889-90.	Fourth quarter of 1888-89.	Fourth quarter of 1889-90.
		Mds. s. c.	Mds. s. c.	Mds. s. c.	Mds. s. c.
Chittagong	Liverpool	1,46,470 0 0	1,06,412 0 0	94,931 25 0	71,371 13 6
	Ramday	...	...	0 10 0	0 7 0
	Muscat	...	...	1 30 0	...
	Rangoon	...	40,320 0 0	...	2,780 0 0
	Malina	...	...	...	0 5 0
Naraingunge	Malina	...	...	20,898 0 0	30,422 0 0
	Liverpool	...	...	...	...
Total		1,46,470 0 0	1,16,732 0 0	1,14,831 57 6	1,04,445 33 8

No transactions in sea-imported salt have been reported for the quarter from the ports of Cuttack, Pooree, and Balasore.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 17th May, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
Burdwan Divs.	1 Burdwan May 17, '90	0.21	Weather—hot and occasionally cloudy. Rain much wanted. Agricultural operations impeded for want of rain. Prospects of <i>sil</i> and sugarcane not good. Prices of common rice:— <div style="float: right; text-align: right;"> Sra. Burdwan 15 Culna 15 Cutwa 14½ Ranigunge 16½ } per rupee. </div>
	2 Bankoora .. 17, '90	0.25	Weather—much cooled down. A very light shower on the 15th. Sugarcane and other standing crops are suffering in places for want of sufficient moisture. Rain wanted for ploughing. Common rice selling at 20 seers per rupee at Sudder and 18 seers at Bissenpore.
	3 Birbhum .. 17, '90	0.07	Rainfall so small as to be hardly measurable; but the sky is much clouded, and the weather remarkably cool. Sugarcane planting nearly complete.
	Rampore Haat ...	0.20	Price of rice 16 to 20 seers per rupee.
	4 Midnapur .. 17, '90	1.56	Frequent showers. Rain very beneficial. It will allow of the lands being prepared for sowing. Indigo doing well. Prices of common rice—
	Contai ...	0.63	<div style="float: right; text-align: right;"> Sra. Sudder 18 Contai 20 Tamlok 17 Ghatal 16 } per rupee. </div>
Presidency Divs.	5 Hooghly .. 17, '90	0.33	Weather—cool for the time of year. Such rain as has fallen has improved prospects. Prices of common rice—
	Jehanabad ...	1.25	<div style="float: right; text-align: right;"> Sra. Sudder 14 Serampore 16 Jehanabad 16 } per rupee. </div>
	Howrah .. 17, '90	1.02	Weather—cooler, somewhat cloudy. The rain has done good. Grounds being prepared for next paddy crop. Price of common rice 12 seers per rupee.
	<i>Central Districts.</i>		
	6 24-Parghs. May 17, '90	1.92	Weather—hot and cloudy. Sowing of early rice and jute continues. The late rain has done much good, but more is wanted. Sugarcane doing well. Prices stationary.
	7 Naddea .. 17, '90	1.61	Rain general and heat much moderated. Sowings going on. Rain has done much good.
	Kushten ...	1.51	
	Meherpore ...	0.21	
	Chudanga ...	1.13	
	8 Khoolna .. 17, '90	3.04	Weather—stormy and hot. Land is being ploughed for <i>aus</i> . Reaping of <i>boro</i> completed with good outturn.
	Satkhira ...	0.52	
	Bagirhat ...	0.44	
	9 Jessore .. 17, '90	3.20	Weather—cool and cloudy. The rainfall of the week has been good for the sowing of indigo, jute, and <i>aus</i> and <i>aman</i> paddy. Jute and indigo have been sown to the extent of 15 annas each.
Rajshahi Divs.	Jhenidah ...	2.12	
	Magura ...	1.66	
	Narail ...	0.14	
	Bongong ...	0.04	
	10 Moorshedabad .. 17, '90	1.25	Weather—cool and cloudy. Good showers over parts of the district, but more rain needed. Sowing of <i>dhadoi</i> progressing.
	Lalbagh ...	0.37	
	Jungipore ...	0.41	
	11 Dinagpur .. 17, '90	3.39	Weather—variable. Storms and much rain during the week. Rain sufficient, and prospects good. Sugarcane planting not yet completed. The usual area is likely to be planted with sugarcane.
	Thakurgaon ...	1.96	
	12 Rajshahi .. 17, '90	0.63	Weather—cool and cloudy. More rain expected. Sowing of jute and of early and winter paddy continues. Rain has done good to the already sown crops. Prices of food-grains stationary.
	Natore ...	3.23	
	13 Rangpur .. 17, '90	3.06	Weather—unsettled; cool with frequent showers. The young <i>aus</i> rice and jute are thriving, but some damage has been done by the excessive rainfall. The area under jute shows a large advance over that of last year.
	Kurigram ...	2.15	
	Nilphamari ...	2.25	
	Gaibanda ...	2.60	
	14 Bogra .. 17, '90	1.71	Weather—changeable. Jute and <i>aus</i> rice are up in most places and doing well. They are still being sown in a few places. The land is being ploughed for <i>aman</i> rice. Common rice selling at 18 seers a rupee.
	Sherpur ...	1.81	
	Nowkhilla ...	1.74	
	15 Pubna .. 17, '90	1.69	Weather—showery. <i>Aus</i> , <i>aman</i> , and jute are still being sown in the Sudder subdivision. Recent rain has done much good. Prospects of crops satisfactory, especially in the Serajgunge subdivision. Prices have somewhat fallen.
	16 Darjeeling .. 17, '90	2.68	Weather—cloudy and cold. Sowing of <i>dhadoi</i> , jute, and sugarcane almost finished. Lands are being prepared for the transplanting of winter rice. Prospects generally good.
	17 Julpigoree .. 17, '90	3.97	Weather—cloudy and fairly cool for this time of year. Sowing of <i>dhadoi</i> and jute nearly completed. Prospects favourable. Common rice selling at 17 seers per rupee.

No.	District and date of return.	Rainfall at reader station in inches.	Character of the weather and state and prospects of the crops.
BEHAR.—concluded.			
Eastern Districts.			
DAKKA DIV.	18 Dacca May 17, '90	5.01	Weather—cool; rainy and cloudy with high winds. State and prospects of crops good. Harvesting of <i>boro</i> paddy completed. Young rice and jute plants thriving. Sugarcane doing well. Chillies are being gathered. Sowing of <i>amun</i> nearly finished. Recent rain has done much good to the standing crops. Fodder is available. Price of common rice 13 to 16 seers per rupee.
	19 Farreedpur „ 17, '90	2.97	Weather—seasonable. Recent rain has much benefited the standing crops. The sowing of <i>amun</i> and <i>aus</i> paddy is all but completed. <i>Jali dhara</i> is being harvested with an average outturn of 13 <i>annas</i> . Price of common rice ranges from 13 to 16 seers per rupee.
	20 Backergunge „ 17, '90	0.55	Weather—seasonable. Prospects of crops good; more rain wanted. Common rice selling at 12 to 15 seers per rupee.
	21 Mymensingh „ 17, '90	4.08	Weather—cool and rainy. State and prospects of crops good. The <i>boro</i> has been harvested, and is more than an average crop. Common rice sells at 18½ seers per rupee.
CHITTAGONG DIV.	22 Chittagong „ 17, '90	1.32	Weather—seasonable. Chilly crop excellent. Sowing of <i>pania aus</i> in progress; in some places it has begun to germinate, but the <i>leda</i> worm (probably the mole cricket) is doing a little damage. Common rice selling at 17 seers per rupee.
	23 Noakholly „ 17, '90	4.44	Weather—variable; temperature very fluctuating. 12 <i>annas</i> on average of <i>aus</i> crop reported to have been sown. In Begunungee, Feui, Farashgunge, and Shonbag damage to a certain extent caused to young plants by insects.
	24 Tipperah „ 17, '90	4.77	Weather—cloudy, wet and cool. Rice, jute, and <i>til</i> doing well. Prospects much improved by the late rain. Prices stationary.
	25 Chittagong Hill Tracts. „ 15, '90	2.93	Weather—very hot and cloudy. Heavy showers on the 10th, 14th and 15th. <i>Jum</i> burning now over. Sowing in <i>jums</i> commenced in some places. Owing to rain many <i>jums</i> not burnt. Gathering of tobacco and chillies still continues. Sugarcane doing well. Common rice is being sold at 13 seers 6½ chittacks per rupee.
Hill Tipperah		...	Report not received.
BEHAR.	26 Patna Barb „ 17, '90	2.18	Weather—hot; often cloudy and occasionally rainy. East wind blowing. <i>Cheena</i> and sugarcane much benefited by the rain of the week. Opium weightment finished. Prices rising.
	27 Gya „ 17, '90	0.90	Weather—hot. Prospects of sugarcane favourable. Prices of food-grains rising.
	28 Shahabad Buxar „ 17, '90	Nil	Weather—cool. East winds. Slight rain at Arrah on the 14th. <i>Cheena</i> being reaped. Prospects good.
	29 Saharunpur „ 17, '90	0.36	Weather—cloudy during the latter part of the week. The rainfall of the week has done immense good to paddy, <i>mung</i> , and indigo, and has facilitated cultivation of <i>khadoi</i> lands. Prices rising.
PATNA DIV.	30 Darbhanga Madhubani „ 17, '90	0.97	Weather—hot at the commencement of the week. Since the rain of Wednesday (14th) the weather has become cool with easterly winds. Rain very beneficial to all crops on the ground, but it has varied much in quantity from place to place, and in most localities more is wanted.
	31 Munger „ 17, '90	0.55	Weather—extraordinarily cool. Strong east wind and a good deal of rain everywhere. Indigo, rice seedlings, and <i>cheena</i> benefited by rain. Ploughing commenced for <i>khadoi</i> crops.
	32 Hajipur Sitamarhi „ 17, '90	2.38	Weather—cool. Rain during the week has been beneficial to the standing crops. Sowing of paddy is being pushed on. Preparation of lands for sowing of <i>khadoi</i> crops continues. Indigo is being weeded.
	33 Saran „ 17, '90	0.67	Weather—warm till 13th, when a cyclonic storm broke from north-east, causing fall in temperature. The rain will do much good, allowing cultivation for <i>khadoi</i> crops to be begun, and doing good to indigo.
SHAHJAHANPUR DIV.	34 Champaran Bettiah „ 17, '90	1.60	Weather—cool with strong easterly winds. Rain has been general, and has done much good to crops on the ground, and has helped on preparation for rice crop.
	35 Muzaffargarh „ 17, '90	1.58	Weather—cool after the rain, with easterly winds. Rain has done good in all parts of the district. Jute and indigo crop doing well except on high lands. Rice on low lands being weeded. <i>Khadoi</i> crops being sown.
	36 Bhagalpur Banka „ 17, '90	2.14	Weather—hot in the beginning of the week, but cool since Tuesday (18th). Heavy showers attended with storms on two days all over the district. This has reduced the temperature considerably, and the rain has been plentiful and general. Harvesting of <i>boro</i> paddy continues. Sowing of <i>khadoi</i> and winter rice going on. About 8 <i>annas</i> of the <i>khadoi</i> have been sown. Rain has done much good to the standing crops. Common rice selling at an average of 14½ seers per rupee, but a fall in price is expected.
	37 Madhepoorah „ 17, '90	1.20	Weather—hot at first and then very cool since the 13th. <i>Boro</i> paddy is still being reaped in Rajmahal. The heavy rainfall at Rajmahal, Pakour, and Godda has greatly assisted agricultural operations, but rain is much wanted at Deoghur.
SHAHJAHANPUR DIV.	38 Purnea Arrah „ 17, '90	0.59	
	39 Malda „ 17, '90	1.12	
	40 Chanchal „ 17, '90	2.44	
	41 Sonmuga „ 17, '90	1.98	
SHAHJAHANPUR DIV.	42 Godda „ 17, '90	2.87	
	43 Pakour „ 17, '90	2.27	
	44 Rajmahal „ 17, '90	0.88	
	45 Jamtara „ 17, '90	2.06	

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
Orissa Divn.	38 Cuttack ... ..	...	Report not received.
	39 Poores May 16, '90	0.50	Weather—seasonable. Sowing of <i>sewad</i> and <i>beali</i> crops has commenced. Miscellaneous crops doing well. Price of common rice stationary.
	40 Balasore „ 17, '90	0.80	Weather—cooler. Rain has helped cultivation, but more is wanted. Number of coolies on relief-works 189.
CHOTA NAGPORE.			
<i>South-West Frontier Agency.</i>			
Chota Nagpore Divn.	41 Hazaribagh May 17, '90	0.44	Weather—rather unsettled; cloudy and much cooler. Sugarcane and mango doing well. Lands being ploughed in places. Rice selling at from 16 to 20 seers per rupee.
	42 Lohardugga „ 17, '90	1.36	Weather—seasonable and cloudy. <i>Makes</i> gathering finished; average outturn at Palamow reported to be 6 annas. Mango and sugarcane reported on well. Ploughing going on. <i>Gora</i> rice being sown here and there.
	43 Singbhoom „ 17, '90	2.53	Heavy rain during the week. Weather still threatening. Ploughing operations commenced. Sugarcane thriving. Mangoes ripening. Common rice selling at from 16 to 24 seers per rupee.
	44 Manbhoom „ 17, '90	1.13	Weather—windy and cool. No crop on the ground excepting sugarcane. Ploughing commenced. The rain has done some good and has cooled the atmosphere. Rice selling at from 19 to 23 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 20th May, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

IMPORTS INTO CALCUTTA.

† Exclusive of bags obtained by local manufacture.

The Sea-borne Trade of Calcutta in these Staples during the month of February, 1890, was as follows:—

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic imported into Calcutta during the month of February, 1890.

IMPORTS INTO CALCUTTA.

SPECIFICATION OF ROUTES.	FOOD-GRAINS.					FIBROUS PRODUCTS.		OILSEEDS.		Tea, Indian.	Cotton, raw.	Silk, raw.	SUGAR.		TOBACCO.	
	Rice.	Paddy.	Wheat.	Gram and pulses.	Other food-grains.	Jute, raw.	Gunny-bags.	Linseed.	Mustard seed.				Refined.	Un-refined.	Manufactured.	Manufactured.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
By country boats	17,43,946	78,094	8,529	62,522	473	4,85,137	585,740	2,112	0,784	8,569	180	1,873	28,009	4,686	2,009	2,009
By river steamers	32,064	111	...	3,061	...	2,30,133	...	11,424	3,301	37,300	3,794	210	...	164	...	...
By rail { East Indian	4,67,022	0,704	92,337	1,16,068	8,925	21,748	44,333	31,565	1,09,030	511	1,81,331	1,833	194	82,860	72	...
By rail { Bengal State Railway	15,435	135	...	25,193	633	2,85,800	833,780	17,003	11,084	1,333	6,214	934	...	20,003	17,001	...
By road	71,390	4,659	...	20,351	...	57,117	19,300	3,690	...	...	...	...	7,782	23,418	3,920	...
By sea	98,521	5,774	...	2,030	...	8,074	22,230	...	877	...	110	...	2	26,483	424	...
Grand Total of Imports in February, 1890	23,10,330	82,871	1,00,863	2,17,711	9,134	11,00,070	1,539,640	44,730	2,22,076	36,706	2,10,190	2,203	41,323	1,20,903	87,483	4,077
Imports in February, 1889	20,10,275	2,19,619	89,593	2,23,633	18,769	9,95,407	1,308,410	83,536	2,08,483	24,544	1,27,044	2,403	21,430	97,103	24,688	3,177

The following Statement shows the Values, Quantities, and Numbers of the Principal Staples of Traffic exported Inland from Calcutta during the month of February, 1890.

EXPORTS FROM CALCUTTA.

Whither exported.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags.	Whither exported.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian.				European.	Indian.	European.	Indian.		
	Rs.	Rs.	Mds.	Mds.	Mds.	No.		Rs.	Rs.	Mds.	Mds.	Mds.	No.
BEHAL.							CHOTA NAAGPORE.						
Bardwan	2,10,461	...	420	1,351	31,000	151,545	Hazaribagh	67,325	2,500	...	73	7,224	8,000
Buxar	1,00,000	...	...	...	...	...	Manbhum	10,710	...	33	800	...	...
Madanpore	2,07,178	...	2,833	63	19,782	4,540	Manbhum	1,02,368	330	254	1,439	12,000	14,700
Hugli	8,15,7	0,440	824	130	2,007	1,805	Total of Chota Nagpore	1,80,929	2,831	257	2,017	20,417	20,410
Talassumaha	1,42,448	11,432	367	...	9,615	20,844	Grand total of supplies into the Provinces under the Lieutenant-Governor of Bengal	80,87,079	29,072	13,000	13,000	6,78,070	1,22,000
Nabha	3,35,11	...	1,460	...	24,721	64,754	OTHER PROVINCES.						
Khanna	77,639	...	100	...	6,000	70	Assam	2,00,000	...	825	461	41,520	12,300
Jamshedpur	1,00,000	...	521	...	15,000	2,000	North-Western Provinces and Oudh	21,00,000	4,100	5,454	477	32,020	311,000
Manikgachhi	72,135	2,000	52	22	4,000	10,000	Punjab	2,00,000	10,000	300	30	...	171,000
Manikgachhi	72,135	2,000	52	22	4,000	10,000	Central Provinces	2,00,000	...	...	...	...	...
Manikgachhi	72,135	2,000	52	22	4,000	10,000	Madras and Central India	41,070	330	100	...	...	24,500
Manikgachhi	72,135	2,000	52	22	4,000	10,000	Madras	...	...	...	...	...	...
Manikgachhi	72,135	2,000	52	22	4,000	10,000	Nizam's Territory	...	...	...	...	...	...
Manikgachhi	72,135	2,000	52	22	4,000	10,000	Bombay	11,711	440	...	...	...	341,700
Manikgachhi	72,135	2,000	52	22	4,000	10,000	Madras	20,070	...	345	1,004	...	...
Manikgachhi	72,135	2,000	52	22	4,000	10,000	Pondicherry	...	...	...	...	...	...
Manikgachhi	72,135	2,000	52	22	4,000	10,000	Madras	2,00,000	17	627	719	...	2,00,000
Manikgachhi	72,135	2,000	52	22	4,000	10,000	Other places	64,28	3,000	20,000	...	...	...
Manikgachhi	72,135	2,000	52	22	4,000	10,000	Grand Total of Exports in Feb. 1890	1,01,172	45,122	10,422	37,407	0,52,127	10,000,000
Manikgachhi	72,135	2,000	52	22	4,000	10,000	Exports in Feb. 1889	1,00,000	...	...	...	...	...
BEHAL.							The Sea-borne Trade of Calcutta in these staples during the month of February 1890, was as follows:-						
Patna	2,65,582	...	100	123	24,031	70,745	IMPORTED INTO CALCUTTA.	Rs.	Rs.	Mds.	Mds.	Mds.	No.
Patna	1,00,000	...	...	...	...	...	From Foreign Ports—						
Patna	1,00,000	...	...	...	...	...	United Kingdom	1,14,54,42	...	10,000	...	0,73,235	...
Patna	1,00,000	...	...	...	...	...	Other Foreign ports	63,002	...	...	...	1,78,000	...
Patna	1,00,000	...	...	...	...	...	Total of Foreign Trade	1,15,17,429	...	10,701	...	0,99,235	...
Patna	1,00,000	...	...	...	...	...	From Indian Ports—						
Patna	1,00,000	...	...	...	...	...	Bombay	19,000	1,07,070	...	6,774	1,000	...
Patna	1,00,000	...	...	...	...	...	Madras	...	...	...	...	2,700	...
Patna	1,00,000	...	...	...	...	...	Other ports in Madras	...	...	...	...	...	...
Patna	1,00,000	...	...	...	...	...	Burman	17,000	23,100	...	...	...	...
Patna	1,00,000	...	...	...	...	...	Other Indian ports	...	...	...	...	...	...
Patna	1,00,000	...	...	...	...	...	Total of Interport Trade	24,100	1,07,200	...	6,871	30,191	...
Patna	1,00,000	...	...	...	...	...	Grand Total of Imports in Feb. 1890	1,15,17,429	1,07,200	10,701	6,871	7,00,000	22,000
Patna	1,00,000	...	...	...	...	...	Imports in Feb. 1889	97,00,000	1,00,000	10,000	7,100	6,00,000	1,000
ORISSA.							* As per tariff declaration value.						
Cuttack	1,00,000	...	...	...	...	...		
Malabar	1,00,000	...	...	...	...	...		
Total of Orissa	1,00,000	...	...	...	...	...		

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic exported from Calcutta during the month of February, 1890.

SPECIFICATION OF ROUTES.	COTTON PIECE-GOODS.		COTTON TWIST.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian.		
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
By country boats	1,01,670	6,940	2,401	...	2,04,000	78,330
By river steamers	...	...	...	...	...	...
By rail { East Indian Railway	...	...	...	...	...	...
By rail { Eastern Bengal State Railway	...	...	...	...	...	...
By road	...	...	...	...	...	...
By sea	...	...	...	...	...	...
Grand Total of Exports in February 1890	1,01,670	45,072	10,122	37,207	4,00,127	10,000,000
Exports in Feb. 1889	1,00,000	50,000	20,714	10,000	4,00,000	10,000,000

Results of the Meteorological Observations taken at the Alipore Observatory from
11th to 17th May 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
May	11th	152.0	9.3	29.646	80.7	97.4	16.7	80.5	81.6	0.970	78.3	71	SSW and S	203	Nil	Partially cloudy
"	12th	162.1	10.1	29.684	80.5	96.3	15.7	80.6	80.8	0.984	77.2	69	SSE, S and SSW	232	"	Partially cloudy, <.
"	13th	150.9	4.0	29.755	85.1	91.8	11.3	80.0	78.5	0.887	75.6	74	SSE, ENE and variable.	202	0.49	Chiefly cloudy, o, s, d, <, p.
"	14th	149.8	5.8	29.811	82.3	90.8	17.1	73.7	75.1	0.777	71.6	71	SSW and variable	166	0.20	Chiefly cloudy, o, d, t, <, p.
"	15th	149.5	9.5	29.748	80.8	90.5	21.2	69.3	74.4	0.773	71.5	74	SSW and variable	104	1.47	Chiefly cloudy, o, s, t, <, p.
"	16th	146.1	4.4	29.716	78.4	87.5	20.3	67.2	73.6	0.766	71.2	70	SSE and variable	78	0.18	Chiefly cloudy, o, d, t, p, lr.
"	17th	153.5	10.2	29.707	83.6	92.2	18.1	74.1	77.1	0.844	74.1	73	SSE, E and variable	89	Nil	Partially cloudy.

The mean pressure of the seven days 29.728
The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 29.682

The total number of hours of bright sunshine 53.4
The maximum possible number of hours of sunshine 92.1

The mean temperature of the seven days 84.2
The average temperature of the corresponding period for 24 years, S.-G.'s Office ... 86.2
The extreme variation of temperature 30.2
The maximum temperature 97.4

The highest velocity of the wind in one hour 20

The highest pressure of wind on one square foot lbs.

The mean relative humidity 73
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office ... 72

The total fall of rain from 11th to 17th May 1890 2.34
The average fall of the corresponding period for 24 years, S.-G.'s Office ... 1.07
The total fall from 1st January to 17th May 1890 4.47
The average fall of the corresponding period for 24 years, S.-G.'s Office ... 7.23

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h and 22h.
The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.
The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.
The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.
The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.
The mouth of the rain-gauge is one foot above the ground.
o overcast, g gloomy, d drizzling rain, t thunder, < lightning, p passing temporary showers, lr lightning reflection.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 19th May 1890.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.	District.	Representative station.	STATION OBSERVATIONS.													
			AIR PRESSURE.			WIND.		TEMPERATURE.								
			Mean barometric height, S.A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean S.A.M. temperature.
ORISSA.	Pooree	Pooree	29.753	29.765	—	NW	374	91.7	16th May	74.0	10th May	91.0	80.7	85.8	—	89.7
		Gopalpore	29.753	29.764	—	SSW	444	90.2	15th "	76.8	15th "	89.9	81.2	81.0	+1.4	89.9
		Paine Point	29.753	29.774	+0.010	Variable	363	91.5	14th "	70.1	13th "	90.9	77.4	84.2	-0.3	85.0
BENGAL.	Cuttack	Cuttack	29.686	29.767	+0.014	SW	141	107.4	11th "	73.6	15th "	102.9	79.4	81.6	+2.2	87.1
	Balasore	Balasore	29.712	29.771	+0.016	SW	216.9	104.5	10th "	69.9	15th "	96.3	77.8	87.0	+2.6	91.8
	South-West Midnapore	Saugor Island	29.753	29.761	+0.014	SSW	480	96.2	14th "	71.0	15th "	93.9	80.1	87.0	+1.9	89.1
BENGAL.	Midnapore	Midnapore	29.623	29.773	+0.081	S	176.1	109.4	10th & 15th May	60.2	15th "	102.2	77.3	89.3	+2.2	83.7
	24-Pargunnahs	Calcutta	29.759	29.780	+0.021	Variable	186	102.4	11th "	67.3	16th "	95.4	76.3	85.8	+1.6	84.7
	Howrah	Howrah	29.603	29.764	+0.066	Variable	173.9	109.3	10th "	71.4	15th "	100.6	78.2	89.4	+2.3	81.7
BENGAL.	Burdwan	Burdwan	29.444	29.744	+0.021	Variable	168.1	104.0	12th "	70.1	15th "	102.3	78.0	90.1	—	83.2
	Berhampur	Berhampur	—	—	—	ENE	163.8	111.5	10th "	71.9	15th "	104.0	77.6	89.6	+2.6	81.6
	Barisal	Barisal	29.710	29.777	+0.017	ENE	163.0	109.2	10th "	69.2	15th "	96.7	76.2	89.4	+0.8	79.7
BENGAL.	Krishnachur	Krishnachur	29.731	29.779	+0.028	Variable	216.8	104.3	10th "	70.3	15th "	98.6	76.1	87.3	+2.6	83.5
	Jessore	Jessore	29.756	29.780	+0.019	SE	167.9	102.3	11th "	70.9	15th "	95.5	76.4	85.9	+1.7	81.3
	Khoolna	Khoolna	29.743	29.833	+0.097	SE	165.6	91.7	10th "	71.0	15th "	99.4	78.3	83.3	+1.7	86.9
BENGAL.	Chittagong	Chittagong	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Chittagong Hill Tracts	Dumagiri	29.786	29.796	+0.016	S	161.3	93.8	10th & 15th May	69.9	15th "	90.6	77.0	84.1	+2.1	82.3
	Backergunge	Backergunge	29.786	29.830	+0.043	S	201.3	93.8	10th "	68.4	15th "	87.9	78.0	80.4	-0.3	80.6
BENGAL.	Noakhali	Noakhali	29.778	29.810	+0.032	E	175.9	100.8	10th "	67.6	15th "	90.8	78.6	83.7	-1.1	79.1
	Faridpur	Faridpur	29.780	29.808	+0.018	E & S	261.2	93.6	10th & 11th May	66.7	15th "	90.2	72.6	81.4	-1.2	79.5
	Dacca	Dacca	29.787	29.823	+0.036	SE	168.9	98.3	10th "	64.3	15th "	88.3	73.0	80.2	-1.4	78.4
BENGAL.	Comilla	Comilla	29.749	29.818	+0.012	ENE	169.9	94.7	10th "	66.1	15th "	86.6	70.9	77.8	-1.0	76.3
	Mymensingh	Mymensingh	29.731	29.794	+0.036	ENE	153.7	104.3	10th "	66.1	15th & 16th May	89.9	71.9	80.9	-2.8	77.2
	Bogra	Bogra	29.743	29.790	+0.012	E	164.3	98.1	10th "	63.4	15th "	86.9	72.1	81.0	-0.1	76.2
BENGAL.	Barisal	Barisal	29.718	29.790	+0.031	Variable	160.4	103.3	10th "	69.3	15th "	93.3	73.6	84.4	-0.5	79.0
	Maldah	Maldah	29.708	29.790	+0.034	E	160.3	116.0	10th "	68.7	15th "	93.9	71.8	83.7	—	78.0
	Dinapore	Dinapore	29.678	29.790	+0.046	NE	111	97.6	10th "	66.2	15th "	86.6	69.6	78.1	-3.3	74.0
BENGAL.	Rangpur	Rangpur	29.718	29.836	+0.044	E	188	90.3	10th "	67.7	15th & 16th May	85.3	69.5	77.5	-2.0	74.0
	Jalpaiguri	Jalpaiguri	29.631	29.826	+0.021	?	215.6	94.6	10th "	—	—	84.3	—	—	—	74.1
	Cooch Behar	Cooch Behar	29.631	29.826	+0.021	?	215.6	94.6	10th "	—	—	84.3	—	—	—	74.1
BENGAL.	Darjeeling Hill Tracts	Darjeeling	29.724	—	—	ENE	180.6	99.1	10th "	66.2	15th & 16th May	89.6	68.4	84.0	-2.1	76.2
	Purneah	Purneah	29.677	29.846	+0.043	ENE	128.7	108.0	10th "	68.0	15th "	93.6	71.1	81.8	-1.3	76.1
	North Bhagalpore	North Bhagalpore	29.674	29.756	—	E	247.3	107.4	11th "	76.2	15th "	98.7	78.6	87.1	—	79.7
BENGAL.	Moulvibazar	Moulvibazar	29.615	29.768	+0.031	SE	201.5	103.9	10th "	—	—	97.6	—	—	—	77.1
	Durgha	Durgha	29.650	29.781	+0.039	SE	267.4	106.2	10th "	67.8	15th & 16th May	90.6	71.0	83.3	-0.4	76.1
	Chumpra	Chumpra	29.633	29.740	+0.014	Variable	—	104.5	10th & 11th May	67.6	15th & 16th May	90.7	72.1	84.4	-1.9	78.1
BENGAL.	Shabab	Shabab	29.417	29.772	+0.080	Easterly	192.5	107.4	12 & 13 "	70.0	15th "	102.5	73.0	87.0	+0.3	80.1
	Arreeh	Arreeh	29.636	29.780	+0.030	ENE	220.2	107.4	10th "	68.8	15th "	100.8	73.0	86.9	-1.1	80.1
	Gya	Gya	29.626	29.766	+0.023	E	160.4	111.1	10th "	69.2	15th "	102.6	70.2	85.3	-0.2	81.1
BENGAL.	Patna	Patna	29.676	29.763	+0.023	E	220.6	112.1	10th "	68.2	15th "	97.1	73.3	84.7	-1.8	78.1
	South Bhagalpore	South Bhagalpore	29.606	29.772	+0.044	Variable	170.0	109.3	10th "	67.5	15th "	96.0	72.2	83.4	-1.0	76.1
	Bombay Pargunnahs	Bombay	29.578	29.772	+0.047	E	254.8	107.5	11th "	70.8	15th & 16th May	97.9	75.5	86.7	-0.3	80.1
BENGAL.	Hazratnagar	Hazratnagar	29.742	29.787	0	Variable	220.4	100.0	13th "	65.3	15th "	97.4	72.2	85.8	-0.1	80.1
	Ichardnagar	Ichardnagar	29.629	29.780	+0.033	Variable	150.8	106.6	10th & 15th May	62.9	15th "	85.9	70.9	83.4	-0.7	76.1
	Manikpur	Manikpur	29.688	29.761	+0.030	Variable	77.1	111.3	10th "	66.9	15th "	103.3	75.0	80.5	+0.6	81.1
BENGAL.	Siwan	Siwan	29.541	29.803	+0.064	ENE	—	84.6	13th "	62.8	15th "	88.0	68.3	75.4	-2.0	76.1
	Rohitpur	Rohitpur	29.721	29.841	+0.032	E	220.1	92.7	10th "	69.8	15th & 16th May	98.1	70.2	76.2	-1.0	76.1
	Nalanda	Nalanda	29.750	29.860	+0.033	ENE	—	88.8	10th "	62.6	15th "	83.0	68.6	75.7	-2.7	76.1

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the readings during the same period for the years 1871-80. The humidity of the atmosphere is expressed in percentage, saturated air being represented by 100. A cloudy sky is denoted by a number from 1 to 10. The number of hours of rain or average of the rainfall in that district determined from barographs sent in by the subdivisions for the period in question during the same period. A heavy rain is denoted by a number from 1 to 10. A light rain is denoted by a number from 1 to 10. A heavy rain is denoted by a number from 1 to 10. A light rain is denoted by a number from 1 to 10.

for the week ending Friday, the 16th of May 1890.

				DISTRICT OBSERVATIONS.												
No.	Average humidity at 5 A.M.	Average cloud amount at 5 A.M. for week.	Rainfall of week at observing station.	RAINFALL.										Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.
				OF WEEK.		Since 1st of month.			Since 15th May 1890.			Average number of rainy days.	Normal number of rainy days.			
				Mean for district.	Normal mean.	Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.					
83	3.2	0.30	0.21	0.73	0.21	1.43	-1.23	77.53	59.67	+18.16	1.3	1.3	Poorce	Poorce	Orissa.	
85	1.6	0.36											Gopalpore			
76	4.6												False Point			
71	5.0	0.63	0.62	0.71	0.62	1.02	-0.70	69.26	56.44	+12.64	1.6	1.6	Cuttack	Cuttack	Orissa.	
75	0.9	1.23	1.48	0.90	1.48	2.35	-0.84	54.51	56.70	-2.19	2.7	1.9	Balasore	Balasore		
78	6.0	0.69	1.20	1.19	1.20	2.73	-1.46	61.25	69.45	-8.20	2.7	1.8	Saugor Island	South-West Midnapore		
69	3.7	1.64	1.69	1.43	1.69	3.23	-1.34	49.83	59.07	-9.24	3.0	1.8	Midnapore	South 24-Pergunnahs	Orissa.	
77	4.7	2.13	1.23	1.27	1.63	2.26	-1.73	57.29	59.61	-2.32	2.3	2.1	Calcutta	Midnapore		
70	5.6	0.21	0.07	1.04	0.24	2.30	-2.25	46.74	54.89	-7.15	1.0	1.8	Burdwan	24-Pergunnahs		
65	4.9	0.24	0.30	0.91	0.30	1.90	-1.60	57.33	57.27	+0.06	0.8	1.7	Bankura	Howrah	South-West Bengal.	
63	4.3	Nil	0.07	0.07	0.10	0.56	-1.46	54.39	56.06	-1.66	0.6	1.5	Ranagunge	Hooghly		
62	3.8	1.25	1.38	0.89	1.43	2.34	-0.89	54.41	56.97	-1.56	1.7	1.3	Berhampore	West Burdwan		
75	3.1	1.69	0.69	1.18	1.10	2.03	-1.93	55.40	57.25	-1.85	1.8	2.0	Krishnagar	Moorshedabad	South-West Bengal.	
66	7.5	2.20	1.70	1.05	2.20	2.77	-1.47	60.23	63.64	-3.12	2.3	2.1	Jessore	Nuddea		
60	5.6	1.08	1.86	2.44	1.86	2.23	-0.37	100.06	124.74	-13.68	4.0	3.0	Chittagong	Jessore	South-West Bengal.	
			3.17	2.67	2.76	2.83	-2.69	77.9	94.74	-17.45	3.0	2.7	Dumagiri	Khoolna		
61	4.7	0.23	0.92	1.07	1.10	4.10	-2.92	54.32	57.49	-3.16	1.8	2.7	Barrack	Chittagong Hill Tracts	South-West Bengal.	
59	2.1	4.67	3.70	3.21	4.09	6.04	-1.96	103.71	123.53	-19.82	4.8	3.0	Noakhully	Backergunge		
58	5.7	2.97	2.40	2.05	2.95	4.61	-1.60	71.40	68.00	+3.40	4.0	2.7	Farredpore	Noakhully	East Bengal.	
63	6.3	2.16	2.68	2.46	3.61	5.70	-1.46	57.63	73.63	+15.74	4.8	3.3	Dacca	Farredpore		
55	6.7	2.74	2.19	2.95	3.61	6.22	-0.71	68.59	84.57	-15.98	6.0	3.2	Comilla	Dacca	East Bengal.	
56	7.1	4.25	3.21	3.41	3.04	6.23	-0.16	101.03	79.53	+21.04	4.0	3.4	Mymensingh	Tipperah		
57	7.0	1.77	2.65	1.83	3.67	2.53	-0.86	73.16	64.43	+8.71	4.3	2.3	Bogra	Mymensingh	East Bengal.	
58	7.7	2.54	2.67	1.68	3.71	2.06	+0.03	63.11	62.50	+0.61	4.0	2.6	Beragunge	Bogra	East Bengal.	
77	5.0	0.57	2.18	1.09	3.85	2.53	+0.23	61.66	59.13	+2.54	2.0	1.6	Rampore	Fubna		
60	4.6	2.67	2.57	0.84	3.96	1.87	+1.11	43.23	58.30	-15.07	3.0	1.7	Maldah	Rajshahy	North Bengal.	
55	6.0	4.33	3.40	1.07	3.91	2.30	+1.71	63.74	61.67	+2.07	3.4	1.6	Dinagore	Maldah	North Bengal.	
52	3.3	2.10	2.85	2.18	3.24	4.78	+0.46	94.90	81.63	+13.27	4.8	2.6	Rangpore	Dinagore		
54	4.7	3.85	2.63	2.22	4.39	5.27	-0.80	119.71	123.06	+3.35	5.2	3.3	Jalpaigore	Rangpore	North Bengal.	
56	7.6	2.02	1.48	2.23	3.75	4.82	-0.77	142.39	133.58	+8.81	5.5	2.9	Darjeeling	Jalpaigore	North Bengal.	
79	5.0	2.44	1.48	0.96	1.77	2.22	-0.95	77.54	63.18	+14.36	2.4	1.3	Purneah	Cooch Behar		
74	2.7	1.54	1.23	0.88	1.20	1.20	-0.09	50.43	46.30	+4.07	2.0	1.0	Mozufferpore	Darjeeling Hill Tracts	North Bengal.	
70	4.4	0.97	1.18	0.80	1.13	1.29	-0.26	53.49	47.49	+6.00	2.0	1.0	Durbhunga	Purneah	North Bengal.	
68	2.0	0.61	0.54	0.09	0.34	1.43	-1.06	64.45	49.74	+14.71	1.0	1.2	Mothari	North Bhagulpore		
67	2.3	0.44	0.43	0.41	0.48	1.63	-0.61	40.74	44.81	-4.18	1.3	0.7	Onpara	Chumprun	North Bengal.	
60	0.0	Nil														
56	1.6	0.34	0.12	0.22	0.13	0.40	-0.27	40.64	61.60	-20.96	1.0	0.6	Dahree	Saru	North Bengal.	
54	2.7	Nil														
59	1.7	0.90	0.59	0.31	0.20	0.48	-0.19	37.67	43.10	-5.43	0.8	0.6	Gya	Shahabad	North Bengal.	
75	3.0	2.18	1.18	0.29	1.18	0.77	+0.41	44.56	42.03	+2.53	1.8	0.7	Bankipore	Gya	North Bengal.	
73	4.0	2.57	1.20	0.80	1.30	0.97	+0.59	44.18	45.50	-1.32	2.2	0.9	Bhagulpore	Patna		
60	2.6	0.97	1.35	0.74	1.44	1.56	-0.14	44.79	54.15	-9.36	1.8	1.3	Doomka	South Bhagulpore	North Bengal.	
55	2.7	0.37	0.31	0.33	0.31	0.97	-0.09	43.05	53.10	-10.05	1.0	1.0	Hazaribagh	Monahyr	North Bengal.	
56	3.4	1.30	0.63	0.43	0.03	0.80	-0.17	40.72	51.54	-10.82	1.3	1.1	Manchi	South Bhagulpore		
		0.64	0.60	0.64		2.31	-0.67	40.18	50.09		1.2	1.0		Manchi		
67	3.1	2.23	2.52	0.70	2.32	1.86	+0.63	52.40	56.12	-3.72	2.0	2.0	Chyabasa	Singbhoon	Orissa.	
92	0.6	1.69											Sibsagar			
90	0.4	2.02											Dhubri	Assam		
85	0.1	4.04											Suchar			

ten years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
 denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
 17 years. The means of the district are the numerical average of the rainfall returns received in the district, i.e., from total rainfall at the stations.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 16th of May 1890.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain- fall since 1st of month.	Average total rain- fall from 1st of month.	Total rain- fall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 10th May.	Sunday, 11th May.	Monday, 12th May.	Tuesday, 13th May.	Wednesday, 14th May.	Thursday, 15th May.	Friday, 16th May.	Number of rainy days.	of Rainfall week.				
SOUTH-WEST BENGAL.	Dacca	Poorce	0.00	0.00	0.00	0.00	0.00	0.01	0.03	2	0.04	0.04	1.21	85.27	84.40
		Khordah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	Nil	1.21	81.00	80.20
		Salpur	0.00	0.00	0.00	0.00	0.00	0.13	0.00	3	0.13	0.13	1.63	77.74	82.52
		Gop	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3	0.23	0.23	1.63	77.74	82.52
		Pipili	0.00	0.00	0.00	0.00	0.00	0.01	0.00	3	0.01	0.01	1.63	77.74	82.52
	Outlook	Jagatsingpore	0.00	0.00	0.00	0.00	0.15	0.00	0.00	1	0.15	0.15	1.64	76.74	80.80
		Banki	0.00	0.00	0.00	0.00	0.01	0.00	0.00	1	0.01	0.01	1.64	76.74	80.80
		Kendrapara	0.00	0.00	0.00	0.00	0.12	0.03	0.00	2	0.15	0.15	1.64	76.74	80.80
		Jajpore	0.00	0.00	0.00	0.00	0.17	1.07	0.00	3	1.24	1.24	1.64	76.74	80.80
		Dharmasala	0.00	0.00	0.00	0.00	0.43	0.00	0.00	3	0.43	0.43	1.64	76.74	80.80
Balasore	Chandballi	0.00	0.00	0.00	0.00	0.00	0.13	1.05	3	1.18	1.18	1.64	76.74	80.80	
	Bhadrach	0.00	0.00	0.00	0.00	0.30	0.47	0.20	3	0.97	0.97	1.64	76.74	80.80	
	Sorah	0.00	0.00	0.00	0.00	0.30	0.00	0.00	3	0.30	0.30	1.64	76.74	80.80	
	Balasore	0.00	0.00	0.00	0.00	0.17	0.12	0.00	3	0.29	0.29	1.64	76.74	80.80	
	Jajpore	0.00	0.00	0.00	0.00	0.13	0.60	0.00	3	0.73	0.73	1.64	76.74	80.80	
Midnapore	Kanripodah	0.00	0.00	0.00	0.00	1.15	1.00	0.00	3	2.15	2.15	1.64	76.74	80.80	
	Contal	0.00	0.00	0.00	0.00	0.10	0.23	0.00	3	0.33	0.33	1.64	76.74	80.80	
	Saugor Island	0.00	0.00	0.00	0.00	0.00	0.00	0.40	3	0.40	0.40	1.64	76.74	80.80	
	Tumlook	0.00	0.00	0.00	0.00	0.30	0.00	0.00	3	0.30	0.30	1.64	76.74	80.80	
	Midnapore	0.00	0.00	0.00	0.00	0.10	0.01	0.00	3	0.11	0.11	1.64	76.74	80.80	
24-Pargannas	Ghettal	0.00	0.00	0.00	0.00	0.30	1.39	0.76	3	2.45	2.45	1.64	76.74	80.80	
	Kutubshahi	0.00	0.00	0.00	0.00	0.43	0.39	1.00	3	1.82	1.82	1.64	76.74	80.80	
	Garbetta	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	1.64	76.74	80.80	
	Diamond Har- bour	0.00	0.00	0.00	0.00	1.00	0.26	1.15	3	2.41	2.41	1.64	76.74	80.80	
	Canning Town	0.00	0.00	0.00	0.00	0.40	0.12	0.54	3	1.06	1.06	1.64	76.74	80.80	
Howrah	Alipore Jail	0.00	0.00	0.00	0.00	0.01	0.03	1.36	3	1.40	1.40	1.64	76.74	80.80	
	Barackpore	0.00	0.00	0.00	0.00	0.15	0.15	0.90	3	1.20	1.20	1.64	76.74	80.80	
	Dum-Dum	0.00	0.00	0.00	0.00	0.23	0.21	0.33	3	0.77	0.77	1.64	76.74	80.80	
	Barasat	0.00	0.00	0.00	0.00	0.23	0.03	1.13	3	1.49	1.49	1.64	76.74	80.80	
	Basirhat	0.00	0.00	0.00	0.00	0.23	0.00	1.00	3	1.46	1.46	1.64	76.74	80.80	
Hooghly	Moheraka (Golabaria.)	0.00	0.00	0.00	0.01	0.00	0.13	0.55	4	0.73	0.73	1.64	76.74	80.80	
	Serampore	0.00	0.00	0.00	0.00	0.00	0.00	0.37	2	1.00	1.00	1.64	76.74	80.80	
	Hooghly	0.00	0.00	0.00	0.00	0.10	0.00	0.00	2	0.10	0.10	1.64	76.74	80.80	
	Jehanabad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	1.64	76.74	80.80	
	Surva	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	1.64	76.74	80.80	
Burdwan	Culina	0.00	0.00	0.00	0.00	0.17	0.03	0.00	2	0.20	0.20	1.64	76.74	80.80	
	Burdwan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	Nil	1.64	76.74	80.80	
	Culina	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	Nil	1.64	76.74	80.80	
	Hanvangan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	Nil	1.64	76.74	80.80	
	Mouhar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	Nil	1.64	76.74	80.80	
Bankura	Bankura	0.00	0.00	0.00	0.00	0.00	0.23	0.00	1	0.23	0.23	1.64	76.74	80.80	
	Bankura	0.00	0.00	0.00	0.00	0.00	0.23	0.00	1	0.23	0.23	1.64	76.74	80.80	
	Malda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	Nil	1.64	76.74	80.80	
	Kishna	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nil	Nil	Nil	1.64	76.74	80.80	
	Jadav	0.00	0.00	0.00	0.00	0.00	0.24	0.00	1	0.24	0.24	1.64	76.74	80.80	
Nadua	Antaijore	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1	1.45	1.45	1.64	76.74	80.80	
	Antaijore	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1	1.45	1.45	1.64	76.74	80.80	
	Antaijore	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1	1.45	1.45	1.64	76.74	80.80	
	Antaijore	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1	1.45	1.45	1.64	76.74	80.80	
	Antaijore	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1	1.45	1.45	1.64	76.74	80.80	
Khosla	Kandahat	0.00	0.00	0.00	0.00	0.00	0.22	0.27	2	0.49	0.49	1.64	76.74	80.80	
	Kandahat	0.00	0.00	0.00	0.00	0.00	0.22	0.27	2	0.49	0.49	1.64	76.74	80.80	
	Kandahat	0.00	0.00	0.00	0.00	0.00	0.22	0.27	2	0.49	0.49	1.64	76.74	80.80	
	Kandahat	0.00	0.00	0.00	0.00	0.00	0.22	0.27	2	0.49	0.49	1.64	76.74	80.80	
	Kandahat	0.00	0.00	0.00	0.00	0.00	0.22	0.27	2	0.49	0.49	1.64	76.74	80.80	
Jessore	Narail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
	Jessore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
	Jessore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
	Jessore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
	Jessore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
Moorshedabad	Kandi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
	Kandi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
	Kandi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
	Kandi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
	Kandi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
Chittagong	Chittagong	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
	Chittagong	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
	Chittagong	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
	Chittagong	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
	Chittagong	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
Chittagong Hill Tracts	Chittagong	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
	Chittagong	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
	Chittagong	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
	Chittagong	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
	Chittagong	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
Backergunge	Backergunge	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
	Backergunge	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
	Backergunge	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
	Backergunge	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	
	Backergunge	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	1.64	76.74	80.80	

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 16th of May 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1889.	Average rainfall from 15th May to date.
			Saturday, 10th May.	Sunday, 11th May.	Monday, 12th May.	Tuesday, 13th May.	Wednesday, 14th May.	Thursday, 15th May.	Friday, 16th May.	Number of rainy days.	of Rainfall week.				
EAST BENGAL—contd.	Naokhally	Gournaddi Beuphai	.....	.....	.....	1'00	1'80	0'20	.....	3	3'10	3'10	?	71'01	?
		Naokhally	.....	.....	.....	.....	0'25	.....	0'05	2	0'30	0'30	?	68'86	?
		Penny	.....	1'08	0'40	0'75	.....	0'50	0'60	5	4'44	4'08	0'55	115'95	122'04
		Harishpore	.....	.....	0'15	1'12	.....	0'54	1'25	6	3'07	3'50	0'25	123'39	123'39
	Farrukhpore	Kamraj	.....	0'50	.....	1'01	0'12	2'72	.....	6	4'35	3'29	?	88'44	?
		Madaripore	.....	0'15	.....	.....	.....	0'34	0'54	2	1'03	1'74	0'44	71'05	69'45
		Farrukhpore	.....	0'55	1'20	0'14	0'53	0'50	0'50	6	5'22	4'04	4'24	73'46	69'61
	Dacca	Gosalundo	.....	.....	0'30	1'57	.....	0'57	0'40	6	3'34	3'04	0'14	68'92	64'68
		Munshiganj	.....	0'24	.....	0'33	.....	0'34	0'03	4	1'00	1'37	0'44	87'00	84'79
		Dacca	.....	1'12	2'25	0'18	.....	0'12	1'21	5	5'01	4'06	0'18	91'05	73'35
	Hill Tipperah	Narainkunda	.....	0'40	0'21	0'09	0'11	0'16	1'09	6	2'25	2'37	0'00	81'60	72'05
		Manikganj	.....	.....	0'27	0'10	0'20	0'40	0'20	4	1'07	2'31	0'34	79'07	63'40
		Jaldighat	0'02	1'55	0'08	0'26	0'46	0'50	0'34	6	3'24	4'20	?	80'22
	Tipperah	Agartala	0'05	.....	.....	0'53	0'58	0'24	0'20	5	2'51	0'54	0'07	60'07	78'84
		Comilla	.....	1'10	1'63	0'37	0'14	1'14	0'24	6	4'77	5'00	0'07	71'25	91'25
		Chandpur	.....	0'15	0'05	0'53	0'40	0'43	0'23	6	3'39	3'40	0'72	75'06	88'25
		Brahmanbaria	0'04	0'00	0'78	0'40	0'13	0'40	0'75	7	2'78	0'67	0'48	68'15	79'00
	Mymensingh	Kamohandrapore.	.....	1'54	1'49	.....	0'01	0'15	0'11	5	4'21	5'31	?	70'28	?
		Nasirabad	.....	.....	2'20	1'30	.....	1'30	1'15	4	5'95	1'35	?	62'64	?
		Daudkandi	.....	1'52	0'75	.....	.....	0'42	0'71	4	3'40	3'40	?	68'54	?
		Kasba	0'42	.....	1'20	.....	1'20	.....	0'00	4	3'82	0'02	?	72'85	?
	Mymensingh	Lakshmi	.....	0'79	0'20	.....	.....	0'15	0'15	4	2'79	4'54	?	61'29	?
		Kishoreganj	.....	.....	2'51	0'11	.....	1'30	0'00	4	4'22	5'30	0'79	83'04	64'77
		Atia (Tangail)	.....	.....	1'03	.....	.....	2'21	0'22	3	3'53	5'00	0'00	70'40	65'60
		Mymensingh	.....	0'45	2'00	0'30	.....	1'00	0'16	6	4'08	5'05	0'00	111'24	65'60
	Rajshahi	Jamalpur	.....	0'40	.....	.....	0'00	0'40	0'22	4	1'71	4'02	0'11	90'40	75'00
		Netrokona	.....	.....	.....	1'02	.....	0'45	0'11	3	2'16	3'34	0'73	125'32	66'71
Subornakhali		.....	.....	.....	.....	.....	1'15	1'30	2	2'45	3'45	?	69'16	?	
Durgapore		.....	.....	.....	.....	2'50	0'13	0'40	3	3'03	1'35	?	16'00	?	
Bogra	Shariatpur Town	.....	.....	0'53	0'24	0'26	.....	0'20	4	1'64	3'78	?	102'97	?	
	Douling	.....	.....	1'5	.....	0'20	.....	.....	.....	.....	.....	?	?	?
	Fahna	.....	.....	.....	0'04	0'10	0'50	0'03	4	1'59	1'64	0'60	85'14	63'17	
	Saratganj	.....	.....	0'03	0'46	.....	1'21	1'46	4	3'79	5'01	0'71	78'03	61'63	
Bogra	Shariatpur	.....	.....	.....	0'45	0'41	1'15	0'10	4	1'91	2'29	0'00	69'01	61'91	
	Nowkhilla	.....	0'35	.....	0'28	0'34	0'64	0'40	5	2'10	2'44	0'42	71'00	61'00	
	Bogra	.....	.....	.....	0'53	0'40	1'23	0'09	4	2'63	2'11	0'00	77'43	68'86	
	Panchbibi	.....	.....	.....	1'67	0'37	1'27	0'02	4	3'63	4'01	0'04	74'01	61'08	
Rajshahi	Banarhat	.....	.....	.....	.....	0'31	0'42	.....	2	0'73	0'63	2'40	80'32	84'42	
	Natore	.....	.....	.....	.....	0'20	0'03	.....	2	0'23	0'23	0'44	70'05	62'05	
	Nugra	.....	.....	.....	.....	0'63	2'05	.....	2	2'67	4'35	1'04	63'70	60'30	
	Lalpur	.....	.....	.....	0'02	1'54	0'25	.....	2	2'12	2'30	?	43'04	?	
Maidah	Maidah	.....	.....	.....	0'35	1'50	.....	.....	2	1'65	1'65	?	47'40	?	
	Chanchal	.....	.....	.....	1'40	0'07	1'40	.....	3	2'87	2'87	1'76	54'13	80'54	
	Gajal	.....	.....	.....	1'45	0'28	0'14	.....	3	2'87	3'09	1'00	52'21	60'21	
	Silghaj	.....	.....	.....	1'20	0'75	0'75	0'23	3	2'40	2'62	?	42'71	?	
Dinagore	Mohadabpore	.....	.....	0'01	0'07	1'30	.....	.....	2	2'04	3'10	0'00	56'48	61'48	
	Churamon	.....	.....	.....	2'20	0'28	0'31	.....	3	3'39	3'39	1'00	85'33	80'02	
	Raigunge	.....	.....	.....	1'17	0'13	1'20	.....	3	2'52	2'46	2'45	82'12	63'78	
	Dinagore	.....	.....	.....	1'14	0'09	2'21	0'43	4	3'93	5'08	2'75	77'00	69'00	
Bangore	Raibachhat	.....	.....	.....	1'62	0'41	1'79	0'29	4	4'31	4'31	1'14	67'23	64'23	
	Thakoorpore	.....	.....	.....	0'14	1'04	0'37	.....	3	1'55	0'70	.....	87'00	?	
	Bhawaniganj (Gyabanda).	.....	.....	1'20	1'10	0'13	0'03	0'35	6	3'07	7'00	4'00	100'78	70'78	
	Bangore	.....	.....	0'10	1'02	0'21	0'55	0'12	5	2'06	5'54	4'11	83'46	73'46	
Jaipur	Kurigram	.....	0'30	0'73	0'81	0'11	0'24	0'26	6	2'63	4'20	0'67	100'30	67'04	
	Bardonia (Niphamari).	.....	.....	.....	0'54	0'67	1'03	.....	3	2'25	3'14	0'03	83'84	94'10	
	Ulupore	.....	.....	.....	1'54	0'75	1'75	0'35	4	4'33	10'08	?	94'45	?	
	Jaipur	.....	0'02	.....	1'06	0'57	2'17	0'04	0'07	6	3'97	4'25	4'73	121'94	127'00
Oooch Behar	Alipore	0'15	0'41	0'71	0'41	0'05	0'01	0'24	7	3'33	4'23	?	133'10	?	
	Fallacotta	.....	0'15	0'11	0'02	0'00	0'58	0'38	7	2'78	3'45	?	139'07	?	
	Debiganj	.....	.....	.....	1'00	0'23	0'23	0'00	3	1'41	6'11	?	99'47	?	
	Bhagatpore (Nagratatta).	1'23	0'06	.....	0'23	0'57	1'14	0'75	6	4'06	5'83	?	121'08	?	
Oooch Behar	Dinhat	0'14	0'20	.....	1'18	0'46	0'12	0'23	6	2'33	4'09	0'33	100'80	107'97	
	Oooch Behar	0'30	.....	.....	0'05	0'45	0'23	.....	4	1'09	2'04	0'00	140'11	120'03	
	Mickligungro.	.....	0'53	.....	1'00	1'23	0'23	0'13	5	3'16	7'30	0'00	134'04	120'02	
	Matebhanga	0'34	0'17	.....	1'70	0'06	0'16	.....	5	2'21	5'71	0'00	121'50	120'41	
Darjeeling Hill	Ruxa	0'06	.....	0'24	0'13	0'05	0'50	0'14	6	2'84	4'87	0'00	204'53	212'49	
	Biliguri	0'10	.....	0'24	0'13	1'10	1'53	0'04	6	3'18	4'89	0'00	130'20	114'01	
	Darjeeling	0'01	.....	.....	0'37	1'53	0'28	0'47	5	2'84	5'11	0'00	130'82	120'13	
	Kalimpong	.....	.....	0'08	0'14	0'73	0'08	1'20	5	1'23	3'14	0'12	97'83	92'12	
NORTH BENGAL	Purneah	Kurseong	.....	.....	.....	0'36	1'30	1'44	1'43	6	4'38	6'06	?	78'60	?
		Kurseong	.....	.....	.....	0'36	1'30	1'44	1'43	6	4'38	6'06	?	78'60	?
		Kinnowganj	0'36	.....	.....	0'13	1'34	.....	0'15	4	1'60	5'75	0'55	107'78	75'96
		Arrah	.....	.....	.....	1'04	1'04	0'04	.....	2	1'08	1'08	0'01	82'18	69'21
	North Bhagalpore.	Purneah	.....	.....	.....	1'40	0'34	0'01	.....	3	2'39	2'39	1'76	66'21	65'71
		Gondakara	.....	.....	.....	1'50	1'00	.....	.....	2	2'50	2'50	?	?	?
		Balarampore	.....	.....	.....	1'10	1'20	.....	.....	2	2'30	2'30	?	?	?
		Natore	0'30	.....	.....	0'30	.....	0'10	.....	2	0'40	0'40	?	?	?
	Durbhanga	Kataganj	.....	.....	.....	.....	1'28	.....	.....	1	1'28	3'37	?	?	?
		Madhupore	.....	.....	.....	0'50	0'10	.....	.....	2	0'60	0'60	1'00	62'31	62'30
		Naupool	.....	.....	.....	1'12	.....	.....	.....	1	1'12	1'12	1'00	60'13	61'73
		Protaganj	.....	.....	.....	0'50	.....	.....	.....	1	0'50	0'50	?	69'67	?
	Mouafferpore	Talpara	.....	.....	.....	0'10	0'70	.....	.....	2	0'80	0'80	1'53	43'45	45'45
		Durbhanga	.....	.....	.....	0'07	0'07	.....	.....	1	0'07	0'07	1'42	41'44	40'00
		Madhubani	.....	.....	.....	0'06	2'45	0'13	.....	2	1'63	1'63	1'53	65'78	65'41
		Rahara	.....	.....	.....	.....	0'64	0'10	.....	2	0'80	0'80	?	70'80	?
	Mouafferpore	Kushera	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	?	?
		Bitamashi	.....	.....	.....	0'07	0'63	.....	.....	2	0'70	0'70	1'48	87'06	65'74
		Mouafferpore	.....	.....	.....	.....	0'62	.....	.....	1	0'62	0'62	1'61	49'17	48'50
		Hajipur	.....	.....	.....	0'08	0'05	1'12	.....	3	1'93	2'38	0'87	45'03	43'53
Mouafferpore	Parsa	.....	.....	.....	.....	1'60	.....	.....	1	1'60	1'60	?	59'50	?	
	Mahes	.....	.....	.....	1'70	.....	.....	.....	1	1'70	1'70	?	48'75	?	
	Gahar	.....	.....	.....	1'60	.....	.....	.....	1	1'60	1'60	?	48'75	?	
	Papri	.....	.....	.....	.....	0'71	.....	.....	1	0'71	0'71	?	49'43	?	

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 16th of May 1890—concl.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 10th May.	Sunday, 11th May.	Monday, 12th May.	Tuesday, 13th May.	Wednesday, 14th May.	Thursday, 15th May.	Friday, 16th May.	Number rainy days.	of Rainfall week.				
NORTH BENGAL—continued.	Chharpada...	Motihari	.....	.....	.....	0.05	0.02	.....	.....	NH	NH	NH	1.20	75.52	47.51
		Hettah	.....	.....	.....	.....	0.12	.....	.....	1	0.12	0.12	1.63	51.34	51.35
		Bugah	.....	.....	.....	.....	1.45	.....	.....	1	1.45	1.45	?	71.27	?
	Sarus	Burhura	.....	.....	.....	.....	.....	.....	.....	1	0.14	0.14	?	53.30	?
		Gopalpur	.....	.....	.....	0.20	0.14	.....	.....	1	0.20	0.14	1.00	25.87	46.01
		Chuprah	.....	.....	.....	0.05	0.05	.....	.....	1	0.05	0.05	0.77	41.81	45.76
	Shahabad	Buter	.....	.....	.....	0.07	0.08	.....	.....	1	0.07	0.08	0.70	41.82	42.20
		Dohra	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	0.40	44.17	30.81
		Harasahi	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	0.25	43.90	41.33
		Sasaram	.....	.....	.....	.....	0.08	.....	.....	1	0.08	0.08	0.51	38.61	43.77
		Arwah	.....	.....	.....	.....	.....	.....	.....	1	0.08	0.08	0.54	30.81	42.14
		Arwah	.....	.....	.....	0.04	0.03	.....	.....	1	0.07	0.07	0.66	44.52	41.90
		Arwah	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	?	?
	Gola	Aurangabad	.....	.....	.....	.....	0.10	.....	.....	NH	NH	NH	0.42	35.78	44.27
		Arwah	.....	.....	.....	.....	.....	.....	.....	1	0.08	0.08	0.53	41.10	44.16
		Arwah	.....	.....	.....	.....	0.15	.....	.....	1	0.15	0.15	0.53	30.81	42.02
		Arwah	.....	.....	.....	.....	0.05	.....	.....	1	0.05	0.05	0.40	35.86	41.56
		Arwah	.....	.....	.....	.....	0.07	.....	.....	1	0.07	0.07	?	35.35	?
		Arwah	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	26.00	?
		Arwah	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	20.20	?
		Arwah	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	17.04	?
		Arwah	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	51.90	?
		Arwah	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	?	?
SOUTH BENGAL	Patna	Patna	.....	.....	.....	1.46	0.06	0.20	.....	5	2.18	2.18	0.75	65.78	45.71
		Patna	.....	.....	.....	1.10	0.21	.....	.....	2	1.31	1.31	0.54	40.90	45.83
		Patna	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	0.83	41.34	45.93
		Patna	.....	.....	.....	0.90	0.45	.....	.....	2	1.23	1.23	0.84	37.23	41.03
		Patna	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	?	?
	Monghyr	Patna	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	35.56	?
		Patna	.....	.....	.....	.....	.....	.....	.....	3	1.58	1.58	0.97	40.74	45.32
		Patna	.....	.....	.....	.....	.....	.....	.....	1	1.00	1.00	0.80	42.34	45.75
		Patna	.....	.....	.....	.....	.....	.....	.....	1	0.14	0.14	0.81	39.72	45.66
		Patna	.....	.....	.....	.....	.....	.....	.....	1	2.45	2.45	?	43.32	?
SOUTH BENGAL—continued.	South Bhagalpur	South Bhagalpur	.....	.....	.....	1.50	0.44	0.15	.....	3	2.09	2.09	1.07	47.41	44.86
		South Bhagalpur	.....	.....	.....	1.03	.....	0.17	.....	2	1.20	1.20	0.97	47.13	40.14
		South Bhagalpur	.....	.....	.....	1.00	.....	0.26	.....	2	1.26	1.26	?	40.78	?
		South Bhagalpur	.....	.....	.....	.....	1.30	.....	.....	1	1.30	1.30	?	?	?
		South Bhagalpur	.....	.....	.....	.....	.....	.....	.....	3	2.25	2.25	1.30	45.04	46.30
	South Patna	South Patna	.....	.....	.....	0.75	0.32	1.24	.....	3	2.31	2.31	1.30	45.04	46.30
		South Patna	.....	.....	.....	0.75	0.32	0.45	.....	3	2.31	2.31	1.30	45.04	46.30
		South Patna	.....	.....	.....	0.75	0.32	1.12	.....	3	2.31	2.31	1.30	45.04	46.30
		South Patna	.....	.....	.....	0.75	0.32	.....	.....	1	0.07	0.07	1.07	45.40	45.10
		South Patna	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	1.45	41.25	45.25
CENTRAL INDIA	Mumbarigh	Mumbarigh	.....	.....	.....	.....	0.21	.....	.....	1	0.21	0.21	1.63	40.74	45.85
		Mumbarigh	.....	.....	.....	.....	1.25	.....	.....	1	1.25	1.25	?	57.40	?
		Mumbarigh	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	57.03	?
		Mumbarigh	.....	.....	.....	.....	0.18	.....	.....	1	0.18	0.18	0.60	30.30	46.38
		Mumbarigh	.....	.....	.....	.....	.....	.....	.....	1	0.18	0.18	0.60	30.30	46.38
		Mumbarigh	.....	.....	.....	.....	0.20	0.07	.....	2	0.27	0.27	1.12	40.78	46.74
		Mumbarigh	.....	.....	.....	.....	.....	.....	.....	1	0.23	0.23	1.12	40.78	46.74
		Mumbarigh	.....	.....	.....	.....	.....	.....	.....	1	0.23	0.23	1.12	40.78	46.74
		Mumbarigh	.....	.....	.....	.....	.....	.....	.....	1	0.23	0.23	1.12	40.78	46.74
		Mumbarigh	.....	.....	.....	.....	.....	.....	.....	1	0.23	0.23	1.12	40.78	46.74
		Mumbarigh	.....	.....	.....	.....	.....	.....	.....	1	0.23	0.23	1.12	40.78	46.74
CENTRAL INDIA—continued.	Lohardugga	Lohardugga	.....	.....	.....	.....	0.35	.....	.....	1	0.35	0.35	0.75	47.24	45.71
		Lohardugga	.....	.....	.....	.....	0.30	.....	.....	1	0.30	0.30	1.02	47.24	45.71
		Lohardugga	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	0.40	45.80	45.19
		Lohardugga	.....	.....	.....	.....	.....	.....	.....	1	0.30	0.30	?	35.00	?
		Lohardugga	.....	.....	.....	.....	.....	.....	.....	NH	NH	NH	?	44.79	?
	Himachal	Himachal	.....	.....	.....	.....	1.10	1.30	.....	2	2.40	2.40	1.81	45.40	45.74
		Himachal	.....	.....	.....	.....	.....	.....	.....	2	2.40	2.40	?	?	?
		Himachal	.....	.....	.....	.....	0.10	0.14	.....	2	0.24	0.24	?	40.84	?
		Himachal	.....	.....	.....	.....	1.10	0.97	.....	2	2.07	2.07	?	?	?
		Himachal	.....	.....	.....	.....	.....	.....	.....	2	1.18	1.18	1.72	40.00	45.72
CENTRAL INDIA—continued.	Munaboom	Munaboom	.....	.....	.....	.....	0.25	0.28	.....	2	0.53	0.53	0.45	40.00	45.72
		Munaboom	.....	.....	.....	.....	0.25	.....	.....	1	0.25	0.25	?	40.00	45.72
		Munaboom	.....	.....	.....	.....	.....	0.70	.....	1	0.70	0.70	?	40.00	45.72
		Munaboom	.....	.....	.....	.....	.....	.....	.....	1	0.70	0.70	?	40.00	45.72
		Munaboom	.....	.....	.....	.....	.....	.....	.....	1	0.50	0.50	?	40.00	45.72
	Munaboom	Munaboom	.....	.....	.....	.....	.....	.....	.....	1	0.50	0.50	?	40.00	45.72
		Munaboom	.....	.....	.....	.....	.....	.....	.....	1	0.50	0.50	?	40.00	45.72
		Munaboom	.....	.....	.....	.....	.....	.....	.....	1	0.50	0.50	?	40.00	45.72
		Munaboom	.....	.....	.....	.....	.....	.....	.....	1	0.50	0.50	?	40.00	45.72
		Munaboom	.....	.....	.....	.....	.....	.....	.....	1	0.50	0.50	?	40.00	45.72

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 16th May 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-
TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE
16TH OF MAY 1890.

The week commenced with fine weather over the whole province, pressure was very low but rising, temperature excessive in nearly all districts, normal circulation of winds obtained, the westerly winds in Behar extending as far as Bhagalpore and the south-westerly winds from the Bay over the greater part of South-West and East Bengal.

These conditions lasted on the eastern side of the province for one day only, for on the 11th a much more rapid rise of pressure in East Bengal as compared with that on the west caused strong easterly winds and probably an inrush of the moist winds which had followed the depression into Burmah a few days before. Rain began to fall in East Bengal on the 11th, but it was chiefly confined to Dacca, Furraddpore, and Tipperah. A few showers fell in North Bengal also, but these do not seem to be due to the same disturbance, as they were not numerous on the 10th, and continued to diminish in number and amount till the 12th. Meanwhile, in the other districts very hot dry weather prevailed, more especially in Orissa and South-West Bengal. On the 11th temperature fell rapidly except in South-West Bengal and along the extreme west, followed by variable changes on the 12th, and as the moist current spread over the province, causing storms in Behar and South-West Bengal on the 13th, the rapid fall extended to these districts, and by the 14th temperature was normal or in defect. On this day the disturbed conditions appeared in Orissa, and over South-West Bengal and the adjacent parts of Orissa and Chutia Nagpur northerly winds were blowing, gradients still continued steep from south-west to north-east, and from the general bearing of the wind directions, a steady current seemed blowing from North Bengal over the whole province. General rain was falling except in the northern districts of South-West Bengal, and by far the heaviest falls were in North Bengal and the Mymensingh district. Similar conditions obtained till the end of the week, pressure continued lowest over the west or south of the province, but from the 14th gradients slowly became less steep, though the wind circulation remained. Heavy showers fell and temperature underwent large and irregular changes, according to the nature of the storms as they occurred at the various stations. Pressure was falling during the latter part of the week, and though everywhere in excess, the difference from the normal was very slight in Orissa and about a twentieth of an inch over the northern half of Bengal. On Friday the 16th, a shallow depression was over the head of the Bay, but, though it may have caused the slightly cyclonic circulation at the neighbouring stations, it had little influence on the general weather which was everywhere recovering from the disturbance.

Thus during the greater part of the week, all the meteorological elements have been subject to large changes, and the unsettled weather has been general over the whole province during the last three days.

Pressure.—On an average for the whole week has been a few hundredths of an inch above the normal, but this is due to the large upward and downward changes balancing one another. At one time the difference from the normal has been nearly two-tenths above, and at another as much below, while in the middle of the week differences from west to east were unusually large, giving steep gradients and the strong easterly or northerly winds which then blew. At first defect varied from $\cdot 1$ inch to $\cdot 17$ inch, but owing to the very rapid rise on the 11th in the north-east, defect on that day was generally below a twentieth of an inch. On the 13th there was a rapid rise in East Bengal and a slow rise along the northern limit and in Orissa; on the 14th the rise was rapid in the western districts and slow in East Bengal, after which there was a brisk fall on the 15th and 16th.

Temperature.—Was everywhere above the normal on the first day of the week by from 5° to 12° over the greater part of the province. With the commencement of the disturbed conditions local rapid falls occurred, the south-western districts being the last to feel the change. On the 11th the rapid fall extended over East and North Bengal and part of Behar. On the 12th it was confined to East Bengal, on the 13th to South-West Bengal and Orissa, and on the 14th to Chutia Nagpur, South-West Bengal, and Orissa; but on this day the fall in Chutia Nagpur exceeded 10° , and 4° over the greater part of the province. There was then a very large defect over the western districts, gradually diminishing towards the east, and it continued with very little change till the end of the week, when defect varied from 6° to 10° . The means for the week are all below the normal except those for South-West Bengal and Orissa.

Rainfall.—A few local showers were falling in North Bengal on the 10th, but elsewhere practically no rain fell. On the 11th showers became more numerous in East Bengal, and on the 12th rain was almost general, but beyond the local showers in North Bengal, it was still dry weather over the rest of Bengal. On the 13th general rain fell in all districts except Orissa, Chutia Nagpur, the west of South-West Bengal, and the southern half of East Bengal, and on the 14th it was falling at almost every reporting station. Rain fell off towards the end of the week in the western districts, but scattered showers continued and general rain in North and East Bengal. The average fall is above the normal in all districts except South-West Bengal, but defect in that district is only a tenth of an inch. The fall in North Bengal is $2\cdot 7$ inches (more than an inch in excess), in East Bengal $2\cdot 5$ inches, and in the other districts about one inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 16th of May 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE						RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.	Since 16th May 1890.		
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average num-ber in week.	Variation.				
Orissa	107.4	86.9	94.3	79.3	86.7	+1.4	1.00	0.98	+0.17	3.3	1.6	+0.7	1.00	1.63	68.78	58.99
South-West Bengal ...	111.5	87.2	98.5	77.1	87.8	+2.3	1.08	1.18	-0.10	3.0	1.9	+0.1	1.31	3.07	86.34	80.30
East Bengal	100.3	85.7	88.9	75.6	81.3	-0.3	2.33	3.67	+0.08	4.0	8.0	+1.0	3.26	8.28	87.18	87.97
North Bengal	110.0	85.3	88.3	71.5	80.8	-1.7	2.73	1.87	+1.14	4.0	3.3	+1.7	3.38	8.67	81.84	78.13
North Bihar*	108.3	85.0	95.3	73.4	84.1	-0.9	1.85	0.78	+0.30	1.0	1.1	+0.3	1.11	1.36	80.48	51.97
South Bihar	115.1	87.3	99.3	73.8	86.3	-0.3	0.99	0.43	+0.47	1.3	0.6	+0.7	0.91	0.91	45.85	48.04
Chuttia Nagpur	108.0	83.3	94.3	71.0	84.1	-0.4	0.90	0.45	+0.34	1.3	1.3	+0.0	0.80	1.06	44.96	52.67
Assam	93.5	82.4	82.5	69.0	75.3	-2.1										

* Durbhanga and Chyabasa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 20th May 1890.

O. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 11th to 17th May 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.						HYGROMETRY.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
May 1890 ...	11th ...	29.679	90.3	90.2	17.9	81.3	86.8	83.0	.987	78.3	63	...
" "	12th ...	.734	89.5	98.0	17.0	81.0	86.8	80.0	.841	74.0	53	...
" "	13th ...	.831	86.4	92.5	12.2	80.3	90.6	81.3	.943	77.5	65	0.09
" "	14th ...	.896	83.5	92.2	17.4	74.3	82.3	77.3	.867	74.9	78	0.88
" "	15th ...	.832	81.8	92.7	21.9	70.8	84.3	76.5	.802	72.6	67	0.14
" "	16th ...	.807	79.8	90.0	20.4	69.6	77.1	74.5	.821	73.3	80	0.74
" "	17th ...	.780	83.9	94.0	30.2	73.8	87.6	79.5	.900	76.0	60	0.21

The mean 10 A.M. pressure of the seven days 29.791

The mean temperature of the seven days 85.0

The extreme variation of temperature 29.6

The maximum temperature 99.2

The mean 10 A.M. relative humidity of the seven days 69

The total fall of rain from 11th to 17th May 1890 1.56

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 19th May 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 3rd May 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 3rd May 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 14.1 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3.7 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years with which comparison is instituted, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Ratio of births per 1,000 of the population per annum	21.0	17.5	15.9	10.4	15.3	17.8	14.1

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	12th April 1890.	19th April 1890.	26th April 1890.	3rd May 1890.		12th April 1890.	19th April 1890.	26th April 1890.	3rd May 1890.
Burdwan	10.7	30.5	32.9	9.2	Narainganj	26.9	41.4	26.8	20.7
Malda	10.4	16.5	17.0	12.4	Chittagong	9.4	5.3	11.7	9.4
Hughli and Chinsurah	24.6	34.6	34.5	23.0	Comillah	...	11.0	30.8	42.4
Baranpore	11.8	27.3	9.8	13.7	Patna	13.0	7.8	6.3	8.5
Uttarpara	...	16.9	9.4	6.4	Gya	19.1	15.7	21.9	13.3
Howrah	14.3	17.6	12.3	17.8	Arrah	10.5	14.4	10.8	14.4
Bell	14.0	10.5	7.8	21.1	Moulterpore	13.2	13.4	10.9	10.9
Kishnagar	18.9	22.7	3.8	28.7	Durghanga	23.0	21.3	21.3	15.5
Kanachiat	30.9	24.0	15.0	6.0	Chupra	7.0	9.1	22.1	14.1
Banipur	17.4	3.8	7.0	10.8	Bhawalpore	14.5	21.7	18.1	10.0
Jessore	18.4	15.4	6.7	...	Mouhlyr	17.3	23.3	19.0	18.0
Rampore Bannuloh	23.0	31.5	24.2	21.9	Purneah	17.3	24.2	38.1	34.8
Darjiling	14.8	14.8	7.4	14.8	Poori	10.8	21.0	18.9	16.8
Dacca	16.9	13.6	23.4	6.5					

It will be seen that last week the highest birth-rate was returned from Comillah (42.4) and the lowest from Patna City (5.5). No births were registered during the week in Jessore town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 26.7 per 1,000 of the population. The rate of the week is 4.2 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1885, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Ratio of deaths per 1,000 of the population per annum	20.7	21.0	21.5	20.5	20.3	23.5	26.7

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	12th April 1890.	19th April 1890.	26th April 1890.	3rd May 1890.		12th April 1890.	19th April 1890.	26th April 1890.	3rd May 1890.
Burdwan	23.0	20.0	22.9	21.4	Narainganj	41.4	18.4	6.3	16.6
Malda	34.1	30.1	13.0	17.0	Chittagong	9.4	5.4	21.1	2.3
Hughli and Chinsurah	60.7	25.6	24.3	65.6	Comillah	19.3	11.0	11.0	19.3
Baranpore	31.4	47.1	49.1	31.4	Patna	23.0	20.8	40.8	26.3
Uttarpara	28.3	47.3	47.3	...	Gya	63.5	44.4	34.3	32.8
Howrah	31.3	10.3	17.3	...	Arrah	17.0	22.7	33.8	23.1
Bell	24.6	31.1	10.3	31.4	Moulterpore	13.3	18.3	10.5	21.9
Kishnagar	17.0	11.4	7.6	15.1	Durghanga	18.1	22.3	24.4	25.3
Kanachiat	1.0	6.0	...	47.9	Chupra	7.0	9.1	22.1	30.1
Banipur	8.7	3.3	6.3	8.8	Bhawalpore	23.5	29.9	34.4	66.3
Jessore	6.1	42.6	18.4	24.0	Mouhlyr	22.0	28.9	27.1	32.1
Rampore Bannuloh	30.4	26.6	20.8	18.4	Purneah	31.3	24.0	31.9	27.7
Darjiling	74.1	28.3	103.7	114.6	Poori	58.7	58.7	64.1	36.7
Dacca	22.1	16.0	26.6	17.6					

It will be seen that last week the highest mortality occurred in the town of Darjiling (118·6) and the lowest in Chittagong (2·3).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

<i>Cholera.</i>	<i>Small-pox.</i>	<i>Fever.</i>	<i>Other causes.</i>
Ratio per mille.	Ratio per mille.	Ratio per mille.	Ratio per mille.
Hughli and Chinsurah 26·3	Ranaghat ... 17·9	Darjiling ... 108·7	Serampore ... 17·6
Patna City ... 13·3	Pooree ... 6·3	Bhagulpore ... 24·4	Bhagulpore... 16·3
Monghyr ... 8·1	Chupra ... 5·0	Purneah ... 24·2	Gya ... 11·6
Chupra ... 5·0	Howrah ... 2·9	Hugli and Chin- surah. ... 23·0	Poori ... 10·6
Dacca ... 4·8		Arrah ... 21·5	
Durbhanga ... 3·9		Bali ... 21·1	
Bhagulpore ... 3·6			

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 4·9 from cholera, against 5·6 per 1,000 in the preceding week; 1·2 from small-pox, against ·7; 12·4 from fever, against 15·2; 1·9 from bowel-complaints, against 1·7; ·4 from injury, against the same ratio; and 5·9 from other causes, against 5·6 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

<i>According to Sex.</i>	<i>According to Class.</i>	<i>According to Age.</i>
Ratio per mille.	Ratio per mille.	Ratio per mille.
Males ... 31·3	Christians ... 22·4	Under 1 year ... 165·9
Females ... 21·8	Hindus ... 26·7	1 and under 5 years ... 31·3
Ratio of male deaths to every 100 female deaths, calculated on the pro- portion such mortality bears to the total male and female population ... 143	Mahomedans ... 27·2	5 " 10 " ... 12·7
		10 " 15 " ... 8·1
		15 " 20 " ... 23·8
		20 " 30 " ... 15·8
		30 " 40 " ... 22·8
		40 " 50 " ... 29·0
		50 " 60 " ... 33·8
		60 years and upwards ... 84·6

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GAZGA, *Dip. Publ. Health, Camb.*,

The 19th May 1890.

Sanitary Commissioner for Bengal.

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[illegible]

W. H. GREGG, Dip. Publ. Health, Camb.,

Sanitary Commissioner for Bengal.

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

THE 19th Nov 1940

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing quantities of Goods carried during the month of February 1890.

ORISSA CIRCLE.

TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDA CANAL, 27 MILES.
MACHGONG " 4 "

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupess.	Tons.	Rupess.	
28	1. Grain ...	31	222	253	9,572	253	9,572	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....
...	4. Salt ...	.....	.....	.....	.....	.....	.....
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	...	.....	.....	...
21	7. Building materials	.....	361	361	522	202	310	
1	8. Miscellaneous ...	.....	7	7	20	7	20	
...	9. Fuel ...	.....	.....	.....	.....	...	.....
10 rafts	10. Timber ...	.....	142 No.	142 No.	233	142 No.	233	
22 "	11. Bamboos ...	.....	19,400 "	19,400 "	342	19,400 "	342	
50 & 32 rafts.	12. Total ...	{ 31	590 & 19,542 No.	621 & 19,542 No.	{ 10,089 }	462 & 19,542 No.	{ 10,477 }	
68 & 35 rafts.	13. Total of same month last year.	{ 118	576 & 16,498 No.	694 & 16,498 No.	{ 13,398 }	649 & 16,498 No.	{ 13,290 }	
14.	Total number of boats plying cargo No.	9	41	50	Total tollage of month— 24 + 25 + 26 + 26½ ...		Rs. A. P.	
15.	Total number of boats plying passenger No.	10	5	15			310 0 0	
15½.	Total empty boats "	39	17	56				
16.	Total registered tonnage, cargo, private Tons	63	714	777	Total tollage of same month last year ...		370 11 0	
16½.	Ditto ditto, Government Tons	.....	264	264				
17.	Total registered tonnage, passenger Tons	270	45	315			Memorandum of Tollage.	
17½.	Ditto empty "	352	223	575				
18.	Ton-mileage ...	9,857	21,268	31,125				
19.	Estimated value of cargo Rs.	3,462	6,652	10,114				
20.	Number of passengers ...	698	97	795	1. Balance not recovered on the 1st of the month ...		Rs. A. P.	
21.	Rafts, bamboos No.	.....	19,400	19,400			2 10 0	
22.	Do., bullahs "	.....	142	142			310 0 0	
23.	Estimated value of rafts Rs.	.....	575	575	2. Tollage per month ...			
24.	Tollage on boats "	78-9-0	168-8-0	277-1-0				
25.	Compounded tollage on boats Ra.	.....	.....	.....	
26.	Tollage on rafts "	.....	31-5-0	31-5-0	3. Total ...		312 10 0	
26½.	Demurrage of a bamboo raft Ra.	.....	1-10-0	1-10-0				
27.	Total tollage on boats per ton-mile Ra.	.....	.....	0-0-1-70				
28.	Total tollage on rafts per 100 cubic feet Ra.	.....	.....	.....	4. Amount credited in the accounts of the month ...		303 0 0	
					5. Balance due at the end of the month ..		9 10 0	

KENDRAPARA CANAL SYSTEM.
LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Quantity.	Value.	
		Up.	Down.	Total.	Tons.	Rupces.	
257	1. Grain ...	1,613	2,497	4,110	4,110	2,16,490	
2	2. Cotton ...	1	1	2	2	500	
23	3. Oilseeds ...	2	452	454	454	73,740	
18	4. Salt ...	31	37	68	68	5,800	
2	5. Piece-goods ...	95	.....	95	95	42,000	
1	6. Metal ...	3	.....	3	3	700	
104	7. Building materials ...	21	994	1,015	397	13,590	
138	8. Miscellaneous ...	384	206	590	590	1,55,370	
7	9. Fuel ...	41	.....	41	41	120	
44 rafts	10. Timber ...	.....	18,744 c. ft.	18,744 c. ft.	18,744 c. ft.	12,490	
36 "	11. Bamboos ...	.....	25,112 "	25,112 "	25,112 "	3,120	
552 & 80 rafts.	12. Total ...	{ 2,191	{ 4,187 & 43,856 c. ft.	{ 6,378 & 43,856 c. ft. }	{ 5,760 & 43,856 c. ft. }	{ 5,23,920 }	{ 5,21,590 }
538 & 62 rafts.	13. Total of same month last year. }	1,660	2,077 & 105,055 No. }	3,737 & 105,055 No. }	3,280 & 105,055 No. }	3,56,640	3,57,020
14. Total number of boats plying cargo	No.	221	331	552	Total tollage of month— 24 + 25 + 26 ...		Rs. A. P.
15. Total number of boats plying passenger	No.	57	50	107			7,917 2 4
15½. Ditto empty boats	"	294	223	517	Total tollage of same month last year ...		5,775 1 0
16. Total registered tonnage, cargo, private	Tons	2,387	6,575	8,962			
16½. Ditto ditto, Government	"	27	1,373	1,400	Memorandum of Tollage.		
17. Total registered tonnage, passenger	Tons	2,200	1,471	3,671			
17½. Ditto ditto empty boats	"	3,027	793	3,820	1. Balance not recovered on the 1st of the month ...		Rs. A. P.
18. Ton-mileage	...	353,407	411,479	764,886			
19. Estimated value of cargo	Rs.	1,87,870	3,20,440	5,08,310	2. Tollage per month ...		7,031 4 2
20. Number of passengers	...	3,554	3,893	7,447			
21. Rafts, timber	C. ft.	.....	18,744	18,744	3. Total ...		7,917 2 4
22. Do., bamboos	"	...	25,112	25,112			
23. Estimated value of rafts	Rs.	.....	15,610	15,610	4. Amount credited in the accounts of the month ...		8,392 10 11
24. Tollage on boats	"	2,657-4-11	4,633-3-6	7,290-8-5			
25. Compounded tollage on boats	Rs.	.....	.....	.....	5. Balance due at the end of the month ...		14,948 6 6
26. Tollage on rafts	"	.....	626-9-11	626-9-11			
27. Total tollage on boats per ton-mile	Rs.	.....	.....	0-0-18			6,555 11 7
28. Total tollage on rafts per 100 cubic feet	Rs.	.....	.....	1-6-10			

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 63 MILES.

Number of boats rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupces.	Tons.	Rupces.	
176	1. Grain ...	526	2	528	32,970	528	33,970	
4	2. Cotton ...	2	3	5	1,300	5	1,300	
18	3. Oilseeds ...	52	.....	52	4,360	52	4,360	
57	4. Salt ...	.....	126	126	11,430	126	11,430	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
1	6. Metal ...	3	.....	3	420	3	420	
24	7. Building materials ...	138	4	142	1,040	142	1,040	
101	8. Miscellaneous ...	206	74	280	11,530	280	11,530	
19	9. Fuel ...	147	.....	147	400	129	360	
rafts	10. Timber ...	39,348 c. ft.	.....	39,348 c. ft.	10,500	39,348 c. ft.	10,500	
5	11. Bamboos ...	400 "	5,150 c. ft.	5,550 "	480	5,550 "	480	
400 & rafts.	12. Total ...	{ 1,074 & 39,748 c. ft.	{ 219 & 5,150 c. ft.	{ 1,293 & 44,898 c. ft.	{ 75,430	{ 1,275 & 44,898 c. ft.	{ 75,390	
855 & rafts.	13. Total of same month last year ...	{ 857 & 1,828 No.	{ 228 & 5,400 No.	{ 1,085 & 7,228 No.	{ 53,880	{ 967 & 7,228 No.	{ 53,730	
		Up.	Down.	Total.				Rs. A. P.
1. Total number of boats ply- ing cargo No.		310	90	400	Total tollage of month— 24 + 25 + 26 ...			1,210 4 3
2. Total number of boats ply- ing passenger No.		1	1	2	Total tollage of same month last year ...			794 15 9
3. Ditto empty boats "		30	294	324	Memorandum of Tollage.			
4. Total registered tonnage, cargo, private Tons		2,207	520	2,727				
5. Ditto ditto, Government "		41	.....	41				
6. Total registered tonnage, passenger Tons		8	12	20				
7. Ditto empty boats "		84	1,383	1,467	1. Balance not recovered on the 1st of the month ...			257 6 7
8. Ton-mileage ...		120,736	25,007	1,45,743				
9. Estimated value of cargo Rs.		45,940	18,510	64,450	2. Tollage per month ...			1,210 4 3
10. Number of passengers ...		5	10	15				
11. Rafts, bamboos C. ft.		400	5,150	5,550				
12. Do., timber "		39,348	.....	39,348	3. Total ...			1,467 10 10
13. Estimated value of rafts Rs.		10,550	430	10,980				
14. Tollage on boats "		536-2-0	302-11-0	838-13-0	4. Amount credited in the accounts of the month			1,271 10 4
15. Compoundd tollage on boats Rs.		.....	.....	.....	
16. Tollage on rafts "		352-2-3	19-5-0	371-7-3				
17. Total tollage on boats per ton-mile Rs.		.....	.....	0-0-1-96	5. Balance due at the end of the month ...			196 0 6
18. Total tollage on rafts per 100 cubic feet Rs.		.....	.....	0-13-3				

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total.	Tons.	Rupess.	
78	1. Grain ...	193	11	204	204	10,692	
1	2. Cotton ...	1	.....	1	1	160	
10	3. Oilseeds ...	.....	22	22	22	1,680	
6	4. Salt ...	.....	27	27	27	3,640	
35	5. Piece-goods ...	.....	37	37	37	9,800	
...	6. Metal ...	.....	.....	.....	.....	.....
2	7. Building materials ...	7½	2	9½	.....	63	
17	8. Miscellaneous ...	172½	63	235½	235½	2,062	
43	9. Fuel ...	.....	302	302	17	51	
16 rafts	10. Timber 347 No.	.....	2,082 c. ft.	2,082 c. ft.	2,082 c. ft.	1,041	
78 "	11. Bamboos ..	.....	43,375 No.	43,375 No.	43,375 No.	1,299	
192 & 94 rafts.	12. Total ...	{ 374	{ 464 2,082 c. ft. 43,375 No.	{ 838 2,082 c. ft. 43,375 No.	{ 543½ 2,082 c. ft. 43,375 No.	{ 31,251 30,425	
244 & 32 rafts.	13. Total of same month last year.	{ 396½	{ 769 & 2,466 c. ft. 9,900 No	{ 1,165½ 2,466 c. ft. 9,900 No.	{ 565 & 2,466 c. ft. 9,900 No.	{ 40,051 37,773	
		Up.	Down.	Total.			
14.	Total number of boats plying cargo ... No.	73	119	192	Total tollage of month— 24 + 25 + 26 ...		Rs. A. P. 385 14 3
15.	Total number of boats plying passenger ... No.	1	1	2	Total tollage of same month last year ...		525 15 0
15½.	Ditto empty boats ..	108	84	192	Memorandum of Tollage.		
16.	Total registered tonnage, cargo and boat Tons	733	354	1,087			
16½.	Ditto Govt. ditto ..	15	574	589			
17.	Total registered tonnage, passenger Tons	2	4	6			
17½.	Ditto empty ditto ..	428	231	659			
18.	Ton-mileage ...	10,910	14,208	25,118	1. Balance not recovered on the 1st of the month ...		Rs. A. P. —0 5 0
19.	Estimated value of cargo Rs.	10,186	18,725	28,911	2. Tollage per month ...		335 14 3
20.	Number of passengers ...	195½	271	466½	3. Total ...		335 9 3
21.	Rafts, bamboos No.	.....	43,375	43,375	4. Amount credited in the accounts of the month ...		330 3 8
22.	Do., bullahs C. ft.	.....	2,082	2,082	5. Balance due at the end of the month ...		5 5 7
23.	Estimated value of rafts Rs.	.....	2,340	2,340			
24.	Tollage on boats ..	113-15-9	183-14-0	297-13-9			
25.	Compounded tollage on boats Rs.	.....	.....	.....
26.	Tollage on rafts ..	.....	38-0-6	38-0-6			
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2-27			
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-13-9			

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons			Value.	Quantity.	
		Up.	Down.	Total.	Rupess.	Tons.	
14	1. Grain ...	160	...	160	8,966	160	8,966
...	2. Cotton ...	...	...	...	...	...	...
...	3. Oilseeds ...	...	...	...	...	...	...
...	4. Salt ...	...	...	...	...	...	...
...	5. Piece-goods ...	...	...	...	...	...	...
...	6. Metal ...	...	...	...	...	...	...
2	7. Building materials ...	...	9	9	137	...	...
3	8. Miscellaneous ...	...	22½	22½	565	22½	565
...	9. Fuel ...	...	...	...	...	...	...
2 rafts	10. Timber ...	...	168 c. ft.	168 c. ft.	65	168 c. ft.	65
3 "	11. Bamboos ...	...	550 No.	550 No.	25	550 No.	25
59 & 5 rafts.	12. Total ...	160	31½ 168 c. ft. 550 No.	191½ 168 c. ft. 550 No.	9,758	182½ 168 c. ft. 550 No.	9,621
126 & 6 rafts.	13. Total of same month last year.	150½	499½ & 546 c. ft.	650 & 546 c. ft.	16,400	195½ & 546 c. ft.	16,027

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	54	5	59	Total tollage of month— 24 + 25 + 26 ...	80 12 9
15. Total number of boats plying passenger No.	...	1	1	Total tollage of same month last year ...	297 9 0
15½. Ditto empty ditto "	7	64	71		
16. Total registered tonnage, cargo and boat Tons	320	45	365		
16½. Ditto Govt. boat "	...	18	18		
17. Total registered tonnage, passenger Tons	...	1	1		
17½. Ditto empty ditto "	27	149	176		
18. Ton-milage ...	2,937	2,244	5,181		
19. Estimated value of cargo Ra.	8,966	702	9,668		
20. Number of passengers ...	292	168½	460½		
21. Rafts, bamboos No.	...	550	550		
22. Do., bullahs C. ft.	...	168	168		
23. Estimated value of rafts Ra.	...	90	90		
24. Tollage on boats "	55-10-0	23-10-6	79-4-6		
25. Compounded tollage on boats Ra.	...	...	...
26. Tollage on rafts "	...	1-8-3	1-8-3		
27. Total tollage on boats per ton-mile Ra.	...	...	0-0-2-65		
28. Total tollage on rafts per 100 cubic feet Ra.	...	...	0-11-2		
				1. Balance not recovered on the 1st of the month ...	...
				2. Tollage per month ...	80 12 9
				3. Total ...	80 12 9
				4. Amount credited in the accounts of the month ...	80 12 9
				5. Balance due at the end of the month ...	...

Memorandum of Tollage.

JAJEPORE CANAL

LENGTH OF CANAL OPEN, 6½ MILES.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupces.	Tons.	Rupces.	
7	1. Grain ...	.....	5½	5½	269	5½	269	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
3	3. Oilseeds ...	.....	13½	13½	3,820	13½	3,820	
1	4. Salt ...	3½	.....	3½	288	3½	288	
7	5. Piece-goods ...	.....	2½	2½	1,400	2½	1,400	
...	6. Metal ...	.....	.....	.....	.....	.....	.....
...	7. Building materials ...	.....	.....	.....	.....	.....	.....
2	8. Miscellaneous ...	.....	8	8	1,267	8	1,267	
1	9. Fuel ...	.....	6½	6½	11	6½	11	
15 Rafts	10. Timber, 483 No.	.....	2,898 c. ft.	2,898 c. ft.	387	2,898 c. ft.	387	
10 "	11. Bamboos No.	.....	4,100 No.	4,100 No.	123	4,100 No.	123	
21	12. Total ...	3½	36 2,898 c. ft. 4,100 No.	39½ 2,898 c. ft. 4,100 No.	7,565	39½ & 2,898 c. ft. 4,100 No.	7,565	
25 Rafts.								
15	13. Total of same month last year.	3	49 1,068 c. ft. 5,800 No.	52 1,068 c. ft. 5,800 No.	4,977	52 & 1,068 c. ft. 5,800 No.	4,977	
16 Rafts.								
		Up.	Down.	Total.				Rs. A. P.
14. Total number of boats plying cargo No.		1	20	21	Total tollage of month— 24 + 25 + 26			18 13 5
15. Total number of boats plying passenger No.		.....	2	2				
15½. Ditto empty ditto "		24	4	28	Total tollage of same month last year			12 7 10
16. Total registered tonnage, cargo and boat Tons		7	72	79				
16½. Ditto Govt. boat "		.....	.....	.....	
17. Total registered tonnage, passenger Tons		.....	8	8	Memorandum of Tollage.			
17½. Ditto empty ditto "		29	8	47				Rs. A. P.
18. Ton-milage ..		276	528	804	1. Balance not recovered on the 1st of the month			.....
19. Estimated value of cargo Rs		288	6,767	7,055	2. Tollage per month ..			18 13 5
20. Number of passengers ...		.....	.....	.....
21. Rafts, bamboos No.		.....	4,100	4,100				
22. Do., bullahs C. ft		.....	2,898	2,898	3. Total ...			18 13 5
23. Estimated value of rafts Rs.		.....	510	510				
24. Tollage on boats "		2-13-6	7-8-2	10-5-8				
25. Compounded tollage on boats Rs.		.....	.....	.....	4. Amount credited in the accounts of the month			18 13 5
26. Tollage on rafts "		.....	8-7-9	8-7-9				
27. Total tollage on boats per ton-mile Rs.		.....	.....	0-0-2-02				
28. Total tollage on rafts per 100 cubic feet Rs		.....	.....	0-7-0	5. Balance due at the end of the month			.....

SOUTH-WESTERN CIRCLE.

MIDNAPPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		Revenue.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupess.	Tons.	Rupess.	
977	1. Grain ...	5,567	316	5,883	2,97,607	5,883	2,97,607	
1	2. Cotton ...	2	2	4	5,140	4	5,140	
21	3. Oilseeds ...	239	72	311	27,354	311	27,354	
84	4. Salt ...	.....	697	697	74,622	697	74,622	
6	5. Piece-goods ...	...	59	59	1,64,100	59	1,64,100	
34	6. Metal ...	105	86	191	1,64,801	191	1,64,801	
73	7. Building materials ...	685	2	687	2,229	476	1,579	
264	8. Miscellaneous ...	588	541	1,129	4,40,150	1,129	4,40,150	
36	9. Fuel ...	89	500	589	4,274	589	4,274	
68 rafts	10. Timber ...	8,630 c. ft.	683 c. ft.	9,313 c. ft.	6,334	9,313 c. ft.	6,334	
14 "	11. Bamboos ...	1,674 "	.....	1,674 "	101	1,674 "	101	
1,496 & 82 rafts.	12. Total ...	7,275 & 10,304 c. ft.	2,275 & 683 c. ft.	9,550 & 10,987 c. ft.	11,86,712	9,389 & 10,987 c. ft.	11,86,062	
1,839 & 55 rafts.	13. Total of same month last year.	7,860 & 19,951 c. ft.	1,623 & 235 c. ft.	9,483 & 20,186 c. ft.	7,03,650	9,483 & 20,186 c. ft.	7,03,650	
		Up.	Down.	Total.				Rs. A. P.
14.	Total number of boats plying cargo No.	1,142	354	1,496	Total tollage of month—24 + 25 + 26 ...			11,809 12 3
15.	Total number of boats plying passenger No.	446	616	1,062	Total tollage of same month last year ..			14,217 3 9
15½.	Ditto empty boats "	522	853	1,375				
16.	Total registered tonnage, cargo Tons	16,598	5,177	21,775	Memorandum of Tollage.			
17.	Total registered tonnage, passenger Tons	3,609	3,479	7,088				
17½.	Ditto empty "	2,312	4,178	6,490				
18.	Ton-mileage ...	495,347	247,357	742,704				
19.	Estimated value of cargo Rs.	7,49,820	4,30,457	11,80,277	1. Balance not recovered on the 1st of the month ...			3,741 1 4
20.	Number of passengers ...	5,007	3,433	8,440	2. Tollage per month ...			11,809 12 3
21.	Rafts, bamboos C. ft.	1,674	.....	1,674				
22.	Do., bullahs "	8,630	683	9,313	3. Total ..			15,550 13 7
23.	Estimated value of rafts Rs.	4,932	1,503	6,435				
24.	Tollage on boats "	7,840-8-3	3,759-9-3	11,600-1-6				
25.	Compounded tollage on boats Rs.	.....	.....	.....	4. Amount paid into treasury during the month ...			8,332 11 0
26.	Tollage on rafts "	201-9-3	8-1-6	209 10-9				
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2-9				
28.	Total tollage on rafts per 100 cubic feet Rs.	...	.....	1-14-6	5. Balance due at the end of the month ...			7,218 2 7

HIDGELLKE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupces.	Tons.	Rupces.	
245	1. Grain ...	200	9	209	9,501	209	9,501	
...	2. Cotton ...	...	...	...	...	...	...
...	3. Oilseeds ...	...	...	...	...	...	...
1	4. Salt ...	...	3	3	320	3	320
...	5. Piece-goods ...	...	...	...	...	...	...
...	6. Metal ...	...	...	...	...	...	...
8	7. Building materials ...	...	15	15	26	15	26
246	8. Miscellaneous ...	1	9	10	708	10	708	
1	9. Fuel ...	...	4	4	30	4	30
1 raft	10. Timber ...	...	127 c. ft.	127 c. ft.	134	127 c. ft.	134
4 rafts	11. Bamboos ...	50	100	150	19	150	19	
501 & 5 rafts.	12. Total ...	{ 201 50	{ 40 & 227 c. ft.	{ 241 & 277 c. ft. }	{ 10,738	{ 241 & 277 c. ft. }	{ 10,738	
1,073 & 8 rafts.	13. Total of same month last year.	{ 2,677	{ 599 & 2,063 c. ft.	{ 3,276 & 2,063 c. ft. }	{ 1,68,410	{ 3,255 & 2,063 c. ft. }	{ 1,65,343	
		Up.	Down.	Total.			Rs. A. P.	
14.	Total number of boats ply- ing cargo No.	265	236	501	Total tollage of month— 24 + 25 + 26 ...		165 0 6	
15.	Total number of boats ply- ing passenger No.	5	8	13	Total tollage of same month last year ...		3,041 8 9	
16.	Total registered tonnage, cargo Tons	431	238	669	Memorandum of Tollage.			
17.	Total registered tonnage, passenger Tons	4	6	10				
18.	Ton-mileage ...	6,082	3,259	9,341			Rs. A. P.	
19.	Estimated value of cargo Rs.	9,351	1,234	10,585				
20.	Number of passengers ...	24	30	54	1. Balance not recovered on the 1st of the month ...		695 15 0	
21.	Rafts, bamboos C. ft.	50	100	150	2. Tollage per month ...		165 0 6	
22.	Do., bullahs ..	.....	127	127			
23.	Estimated value of rafts Ra.	6	147	153	3. Total ...		860 15 0	
24.	Tollage on boats ..	105-11-9	56-6-9	162-2-6				
25.	Compounded tollage on boats Ra.	.....	.....	.....	4. Amount paid into treasury during the month		164 9
26.	Tollage on rafts ..	0-2-0	2-12-0	2-14-0				
27.	Total tollage on boats per ton-mile Ra.	.....	.....	0-0-3-3			
28.	Total tollage on rafts per 100 cubic feet Ra.	.....	.....	1-0-7	5. Balance due at the end of the month		696 6

SONE CIRCL^e
PATNA CANAL SYSTEM.
LENGTH OF CANAL OPEN, 86½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupess.	Tons	Rupess.	
16	1. Grain ...	10	129	139	9,159	139	9,159	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
1	3. Oilseeds ...	1	16	17	2,300	17	2,300	
1	4. Salt ...	35	.....	35	5,136	35	5,136	
16	5. Piece-goods ...	106	.. ..	106	22,430	106	22,430	
...	6. Metal ...	7	.....	7	1,920	7	1,920	
24	7. Building materials ...	28	166	194	1,563	142	1,113	
97	8. Miscellaneous ...	181	473	654	41,434	418	40,180	
...	9. Fuel By rafts ...	.....	219	219	668	219	668	
4	10. Timber { By boat ...	17	.....	17	275	17	275	
	" rafts ...	.....	319	319	3,714	319	3,714	
11	11. Bamboos { By boat ...	104	.....	104	2,300	104	2,300	
	" rafts ...	.....	945	945	13,086	945	13,086	
170	12. Total ...	489	2,267	2,756	1,03,985	2,468	1,02,281	
135	13. Total of same month last year ...	465	1,804	2,269	1,12,767	1,929	1,11,532	

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	60	101	170	Total tollage of month—24 + 25 + 26 ...	1,820 2 3
15. Total number of boats plying passenger No.	4	4	8		
15½. Ditto empty boats "	60	39	99	Total tollage of same month last year ...	1,032 9 3
16. Total registered tonnage, cargo Tons	887	1,344	2,231		
17. Total registered tonnage, passenger Tons	164	164	328		
17½. Ditto empty boats "	317	112	429		
18. Ton-mileage ...	52,706	1,53,213	2,05,919		Rs. A. P.
19. Estimated value of cargo Rs.	39,863	46,654	86,517	1. Balance not recovered on the 1st of the month ...	415 3 1
20. Number of passengers ...	346½	287	633½	2. Tollage per month ...	1,820 2 3
21. Rafts, bamboos C. ft.	.....	141,737	141,737		
22. Do., bullahs "	.....	40,346	40,346		
23. Estimated value of rafts Rs.	.....	17,468	17,468	3. Total ...	2,235 5 4
24. Tollage on boats "	375-13-6	556-7-9	932-5-3		
25. Compounded tollage on boats Rs.	75-0-0	75-0-0	150-0-0		
26. Tollage on rafts "	.....	737-13-0	737-13-0	4. Amount credited in the accounts of the month ...	1,758 11 6
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1		
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-6-5	5. Balance due at the end of the month ...	476 9 10

ARRAH CANAL SYSTEM.
LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupces.	Tons.	Rupces.
10	1. Grain ...	2	90	92	6,104	92	6,104
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
4	3. Oilseeds ...	.....	79	79	8,800	79	8,800
18	4. Salt ...	264	.....	264	32,380	264	32,380
1	5. Piece-goods ...	19	.....	19	18,450	19	18,450
...	6. Metal ...	1	.....	1	304	1	304
15	7. Building materials ...	.....	146	146	481	78	317
79	8. Miscellaneous ...	61	752	813	84,705	704	84,542
12	9. Fuel ...	101	64	165	1,953	115	1,432
1	10. Timber ...	.....	11	11	400	.....	.....
Rafts	11. { Bullahs ...	.....	210	210	1,559	210	1,559
	Bamboos ...	.....	50	50	444	50	444
	Firewood ...	.....	314	314	826	314	826
140	12. Total ...	448	1,716	2,164	1,56,406	1,926	1,55,158
105	13. Total of same month last year.	198	1,900	2,098	79,335	1,930	78,280

	Up.	Down.	Total.		Rs.
14. Total number of boats plying cargo No.	35	105	140	Total tollage of month— 24 + 25 + 26 ...	1,317
15. Total number of boats plying passenger No.	1	3	4	Total tollage of same month last year ...	896
16. Total registered tonnage, cargo Tons	702	1,833	2,535	<i>Memorandum of Tollage.</i>	
17. Total registered tonnage, passenger Tons	62	58	120		
17½. Total registered tonnage, empty Tons	302	18	320		
18. Ton-milage ...	47,908	85,862	133,770	1. Balance not recovered on the 1st of the month ...	135
19. Estimated value of cargo Rs.	66,613	86,964	1,53,577	2. Tollage per month ...	1,317
20. Number of passengers ...	850	747	1,597	3. Total ...	1,452
21. Rafts, bamboos C.ft.	.....	7,555	7,555	4. Amount credited in the accounts of the month ...	1,345
22. Do., bullahs "	.....	15,800	15,800	5. Balance due at the end of the month ...	107
22½. Do., firewood "	.....	23,560	23,560		
23. Estimated value of rafts Rs.	.....	2,829	2,829		
24. Tollage on boats "	248-15-9	625-3-0	874-2-9		
25. Compounded tollage on boats Rs.	182-14-3	182-14-6	365-12-9		
26. Tollage on rafts "	.....	77-2-9	77-2-9		
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1-78		
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-2-7		

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupess.	Tons.	Rupess.	
5	1. Grain ...	.....	55	55	3,124	55	3,124	
...	2. Cotton ...	.....	.....	.....	...	...	...
4	3. Oilseeds ...	.....	75	75	8,800	75	8,800	
...	4. Salt ...	1	.....	1	80	1	80	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....	.....
8	7. Building materials ...	16	100	116	1,641	75	766	
46	8. Miscellaneous ...	12	531	543	41,165	543	41,165	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....
Rafts {	10. Timber ...	.....	256	256	1,884	256	1,884	
	11. Bamboos ...	.....	184	184	2,341	184	2,341	
63	12. Total ...	29	1,201	1,230	59,035	1,169	58,160	
16	13. Total of same month last year.	31	961	992	28,621	992	28,621	
		Up.	Down.	Total.				Rs. A. P.
14.	Total number of boats plying cargo No.	3	60	63				
15.	Total number of boats plying passenger No.	8	8	16	Total tollage of month—			
15½.	Ditto empty boats "	67	7	74	24 + 25 + 26 ...			734 15 6
16.	Total registered tonnage, cargo Tons	35	1,435	1,470	Total tollage of same			
17.	Total registered tonnage, passenger Tons	216	216	432	month last year ...			503 12 9
17½.	Ditto empty "	261	27	278				
18.	Ton-mileage ...	8,552	31,908	40,460	Memorandum of Tollage.			
19.	Estimated value of cargo Rs.	2,373	52,437	54,810				
20.	Number of passengers ...	502	443	945				
21.	Rafts, bamboos C. ft.	.....	27,617	27,617	1. Balance not recovered on the 1st of the month ...			36 14 9
22.	Do., bullahs "	.....	19,243	19,243	2. Tollage per month ...			734 15 6
23.	Estimated value of rafts Rs.	.....	4,225	4,225	3. Total ...			771 14 3
24.	Tollage on boats "	56-10-0	371-2-0	427-12-0	4. Amount credited in the accounts of the month ...			764 4 6
25.	Compounded tollage on boats Rs.	72-14-10	72-14-11	145-13-9	5. Balance due at the end of the month ...			7 9 9
26.	Tollage on rafts "	.....	161-5-9	161-5-9				
27.	Total tollage on boats per tou-mile	.....	.....	0-0-3				
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-5-6				

**ABSTRACT FOR THE MONTH OF FEBRUARY 1890 AS COMPARED WITH THE
CORRESPONDING MONTH OF THE PREVIOUS YEAR.**

CANAL.	TRAFFIC, 1889-90.			TRAFFIC, 1889-90.			REMARKS.
	During the month.		To end of the month.	During the month.		To end of the month.	
<i>Orissa Circle.</i>	Rs.	A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.		
Taldunda Canal System ...	310	0 0	3,365 7 3	370 11 0	2,690 11 0		
Kendrapara Canal System ...	7,917	2 4	52,418 6 7	5,775 1 0	45,597 12 6		
High Level, Range I ...	1,210	4 3	7,343 7 8	794 15 9	6,709 9 9		
Ditto, " II ...	335	14 3	2,748 9 3	525 15 0	2,562 9 6		
Ditto, " III ...	80	12 9	1,110 3 6	297 9 0	1,194 5 6		
Jajepore Canal ...	18	13 5	116 5 0	12 7 10	86 12 9		
Total Orissa Circle ...	9,872	15 0	67,102 7 3	7,776 11 7	57,751 13 0		
<i>South-Western Circle.</i>							
Midnapore Canal ...	11,809	12 3	1,29,016 2 3	14,217 3 9	1,31,691 12 6		
Hidgeltee Tidal Canal ...	165	0 6	38,503 13 0	3,041 8 9	50,526 12 9		
Total South-Western Circle	11,974	12 9	1,67,519 15 3	17,258 12 6	1,82,218 9 3		
<i>Sone Circle.</i>							
Patna Canal System ...	1,820	2 3	22,046 14 9	1,032 9 3	21,949 4 9		
Arrah ditto ...	1,317	2 3	16,625 14 11	896 7 0	17,134 2 2		
Buxar ditto ...	734	15 6	6,572 7 2	500 12 9	8,112 2 6		
Total Sone Circle ...	3,872	4 0	45,245 4 10	2,429 13 0	47,195 9 5		
GRAND TOTAL ...	25,719	15 9	2,79,867 11 4	27,465 5 1	2,87,165 15 8		

GOVERNMENT TRANSPORT SERVICE.

CANAL.	TRAFFIC, 1889-90.						TRAFFIC, 1889-90.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.
<i>Orissa Circle.</i>	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A.
High Level ...	1,156	1,137	1,026 8 6	7,936	7,994	9,317 4 10	955	3,155	1,380 3 4	5,304	7,179	6,515 3
Total Orissa Circle ...	1,156	1,137	1,026 8 6	7,936	7,994	9,317 4 10	955	3,155	1,380 3 4	5,304	7,179	6,515 3

TOTAL NAVIGATION RECEIPTS.

CANAL.	EARNINGS, 1889-90.			EARNINGS, 1889-90.			REMARKS.
	During the month.		To end of the month.	During the month.		To end of the month.	
	Rs.	A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.		
Orissa Canals ...	10,899	7 6	76,419 12 1	9,156 14 11	64,267 0 8		
Midnapore Canal ...	11,809	12 3	1,29,016 2 3	14,217 3 9	1,31,691 12 6		
Hidgeltee Tidal Canal ...	165	0 6	38,503 13 0	3,041 8 9	50,526 12 9		
Sone Canals ...	3,872	4 0	45,245 4 10	2,429 13 0	47,195 9 5		
Total ...	26,746	8 3	2,59,185 0 2	28,845 8 5	2,93,681 3 4		

CALCUTTA,
The 20th May 1890.

G. A. G. SHAW,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, -BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low-water in the Rivers Ganges, Bhagirathi, Jellinghee, and Brahmaputra for the month of February 1890.

DATE.	RIVER GANGES.										RIVER JELLINGHEE.		RIVER BRAHMAPUTRA.	
	Mirzapur.	Banar.	Bar.	Disapur.	Monahy.	Subdrange.	Benares Benah.	Benares Benah.	Benares Benah.	Benares Benah.	Benares Benah.	Benares Benah.	Benares Benah.	Benares Benah.
	From Allahabad.	From Allahabad.	From Allahabad.	From Allahabad.	From Allahabad.	From Allahabad.	From Allahabad.	From Allahabad.	From Allahabad.	From Allahabad.	From Allahabad.	From Allahabad.	From Allahabad.	From Allahabad.
1st	226	226	226	226	226	226	226	226	226	226	226	226	226	226
2nd	226	226	226	226	226	226	226	226	226	226	226	226	226	226
3rd	226	226	226	226	226	226	226	226	226	226	226	226	226	226
4th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
5th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
6th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
7th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
8th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
9th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
10th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
11th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
12th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
13th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
14th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
15th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
16th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
17th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
18th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
19th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
20th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
21st	226	226	226	226	226	226	226	226	226	226	226	226	226	226
22nd	226	226	226	226	226	226	226	226	226	226	226	226	226	226
23rd	226	226	226	226	226	226	226	226	226	226	226	226	226	226
24th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
25th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
26th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
27th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
28th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
29th	226	226	226	226	226	226	226	226	226	226	226	226	226	226
30th	226	226	226	226	226	226	226	226	226	226	226	226	226	226

Calcutta,
The 19th May 1890.R. A. G. SHAW,
Under-Secretary to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1889-90.

Areas leased for irrigation up to the end of February 1890.

Circle.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilized.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	Annual leases.					Rainfall, 1889-90.		REMARKS.									
								C. ft.	D. cu.	C. ft.	D. cu.	C. ft.	D. cu.	Acres.		Acres.	Kharif.	Rabi.	Sugarcane.	Bladed.	Hot-weather.	Total.	Grand Total.	
																								Five years, all crops.	Five years, kharif.
Orissa.	Cuttack.	Talunda, 1st reach	1,543	559	23	10,048	10,048	Acres.	10,493	Acres.	264	13	Acres.	286	Acres.	10,879	Acres.	10,879	Inches.	72-22	0-78	Inches.	79-28	Whole month discharging, 3 days discharging.
		Do, 2nd "	508	160	10	27,768	27,768	Acres.	27,768	Acres.	225	14	Acres.	239	Acres.	27,994	Acres.	27,994	Inches.	68-48	0-17	Inches.	68-09	
		Machung	779	19	187-48	40,364	40,364	Acres.	41,457	Acres.	3,083	28	Acres.	3,111	Acres.	44,568	Acres.	44,568	Inches.	75-98	1-28	Inches.	76-26	
		Kondrapara	1,087	298-90	13-46	1,576	1,576	Acres.	2,360	Acres.	812	8	Acres.	819	Acres.	2,408	Acres.	2,408	Inches.	65-28	1-38	Inches.	67-38	
		Other	37,783	13,730	13-20	1,460	2,446	Acres.	11,141	Acres.	7	3	Acres.	7	Acres.	11,756	Acres.	11,756	Inches.	No gauge fixed.				
SOUTH-WESTERN.	Midnapore.	Panchborech	885	61,901	81-41	9,303	9,303	Acres.	23,145	Acres.	440	3	Acres.	440	Acres.	23,621	Acres.	23,621	Inches.	72-88	0-00	Inches.	72-79	Decrease in annual lease is due to transfer to 5 years' lease.
		Machung	608	20-34	6-31	18,344	18,344	Acres.	2,362	Acres.	61	88	Acres.	68	Acres.	24,459	Acres.	24,459	Inches.	60-98	0-22	Inches.	61-44	
		Do, ditto	727-10			35,749	35,749	Acres.	107,230	Acres.	2,503	150	Acres.	2,653	Acres.	112,404	Acres.	112,404	Inches.					
		Total	1,411	48	61-78	40,760	40,760	Acres.	61,286	Acres.	11	178	Acres.	189	Acres.	130,304	Acres.	130,304	Inches.	60-00	4-26	Inches.	60-00	
		Total of the corresponding period of last year	823	8	2-00	4,619	4,619	Acres.	518	Acres.	440		Acres.	440	Acres.	4,933	Acres.	4,933	Inches.	60-00	0-21	Inches.	60-17	
SOUTH.	Shahabad.	Panchborech	1,466	483	810	64,710	64,710	Acres.	68,094	Acres.	661		Acres.	661	Acres.	68,094	Acres.	68,094	Inches.			Inches.		
		Do, ditto	727-10			35,749	35,749	Acres.	107,230	Acres.	2,503	150	Acres.	2,653	Acres.	112,404	Acres.	112,404	Inches.					
		Total	1,411	48	61-78	40,760	40,760	Acres.	61,286	Acres.	11	178	Acres.	189	Acres.	130,304	Acres.	130,304	Inches.	60-00	4-26	Inches.	60-00	
		Total of the corresponding period of last year	823	8	2-00	4,619	4,619	Acres.	518	Acres.	440		Acres.	440	Acres.	4,933	Acres.	4,933	Inches.	60-00	0-21	Inches.	60-17	
		Total	1,411	48	61-78	40,760	40,760	Acres.	61,286	Acres.	11	178	Acres.	189	Acres.	130,304	Acres.	130,304	Inches.	60-00	4-26	Inches.	60-00	
SOUTH.	Shahabad.	Panchborech	1,466	483	810	64,710	64,710	Acres.	68,094	Acres.	661		Acres.	661	Acres.	68,094	Acres.	68,094	Inches.			Inches.		
		Do, ditto	727-10			35,749	35,749	Acres.	107,230	Acres.	2,503	150	Acres.	2,653	Acres.	112,404	Acres.	112,404	Inches.					
		Total	1,411	48	61-78	40,760	40,760	Acres.	61,286	Acres.	11	178	Acres.	189	Acres.	130,304	Acres.	130,304	Inches.	60-00	4-26	Inches.	60-00	
		Total of the corresponding period of last year	823	8	2-00	4,619	4,619	Acres.	518	Acres.	440		Acres.	440	Acres.	4,933	Acres.	4,933	Inches.	60-00	0-21	Inches.	60-17	
		Total	1,411	48	61-78	40,760	40,760	Acres.	61,286	Acres.	11	178	Acres.	189	Acres.	130,304	Acres.	130,304	Inches.	60-00	4-26	Inches.	60-00	

CALCUTTA,
The 19th May 1890.G. A. G. SHAW, S.E.,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing quantities of Goods carried during the month of March 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.		Tons.	Rupees.	
400	1. Grain ...	881	3,255	4,136	2,31,806	4,136	2,31,806	* 19 mounds raised up on Mahabharata river. † 18 mounds pumped down on Mahabharata river.
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
117	3. Oilseeds* ...	.....	1,702	1,702	2,03,107	1,702	2,03,107	
156	4. Salt ...	373	.....	373	34,068	373	34,068	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
14	6. Metal† ...	65	7	72	55,695	72	55,695	
23	7. Building materials ...	280	16	296	7,212	296	7,212	
537	8. Miscellaneous ...	2,024.35	3,045.60	5,069.95	9,54,947	5,069.95	9,54,947	
52	9. Fuel ...	490	126	616	8,162	616	8,162	
Rafts 67	10. Timber ...	155 c. ft.	20,422 c. ft.	20,577 c. ft.	61,730	20,577 c. ft.	61,730	
" 6	11. Bamboos ...	200 "	2,100 "	2,300 "	142	2,300 "	142	
1,299 & 73 rafts.	12. Total ...	{ 4,113.35 & 855 c. ft.	{ 8,151.60 & 22,522 c. ft.	{ 12,264.95 & 22,877 c. ft.	{ 15,56,869	{ 12,264.95 & 22,877 c. ft.	{ 15,56,869	
1,499 & 12 rafts.	13. Total of same month last year	{ 5,270 & 1,657 c. ft.	{ 9,429 & 1,260 c. ft.	{ 14,699 & 2,917 c. ft.	{ 15,01,617	{ 14,699 & 2,917 c. ft.	{ 15,01,617	
		Up.	Down.	Total.			Rs. A. P.	
14. Total number of boats plying cargo No.		600	699	1,299	Total tollage of month— 24+25+26 ...		7,869 9 0	
14a. Empty boats and steamers, &c. No.		728	138	866	Total tollage of same month last year ...		7,957 6 9	
15. Total number of boats plying passenger No.		800	508	1,308	Memorandum of Tollage.			
15a. Ditto empty boats "		3	3	6				
16. Total registered tonnage, cargo Tons		20,410.5	17,202	37,612.5				
17. Total registered tonnage, passenger Tons		153	128	281				
18. Ton-mileage		.....	.....	.....	
19. Estimated value of cargo Rs.		5,72,629	9,22,368	14,94,997	1. Balance not recovered on the 1st of the month ...		Rs. A. P. 345 0 6	
20. Number of passengers No.		1,003	1,892	2,895	2. Tollage per month ...		7,869 9 0	
21. Rafts, bamboos C. ft.		200	2,100	2,300	3. Total ...		8,214 9 6	
22. Do., bullahs "		155	20,422	20,577	4. Amount paid into treasury during the month ...		8,019 9 6	
23. Estimated value of rafts Rs.		481	61,391	61,872	5. Balance due at the end of the month ...		195 0 0	
24. Tollage on boats "		3,401.9-6	4,101.2-0	7,502.11-6				
25. Compounded tollage on boats Rs.		.....	.....	.....	
26. Tollage on rafts "		2-13-0	364-0-6	366-13-6				
27. Total tollage on boats per ton-mile*		.....	.....	.....	
28. Total tollage on rafts per 100 cubic feet ...		.....	.....	1-9-7				

* Boats in these rivers do not pay per mile.

Abstract for the month of March 1890 as compared with the corresponding month of the previous year.

	1889-90.		1890-91.	
	During the month.		During the month.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage ...	7,869 9 0	1,85,982 5 3	7,957 6 9	1,91,750 13 11

CALCUTTA,
The 19th May 1890.G. A. G. SHAWR,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing quantities of Goods carried during the month of March 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value. Rupees.	Quantity.	Value.	
		Up.	Down.	Total.		Tons.	Rupees.	
421	1. Grain ...	4,179	151	4,330	1,56,274	4,330	1,56,274	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
3	3. Oilseeds ...	3	.....	3	360	3	360	
45	4. Salt ...	1	377	378	42,103	378	42,103	
6	5. Piece-goods ...	.....	25	25	4,900	25	4,900	
4	6. Metal ...	1	9	10	2,100	2	100	
57	7. Building materials ...	161	137	298	7,875	86	586	
881	8. Miscellaneous ...	150	468	618	60,746	562	59,850	
28	9. Fuel ...	44	161	205	1,290	205	1,290	
16 rafts	10. Timber ...	1,028 c. ft.	51 c. ft.	1,079 c. ft.	720	708 c. ft.	485	
10 "	11. Bamboos ...	630 "	762 "	1,392 "	159	1,392 "	169	
1,445 & 26 rafts.	12. Total ...	{ 4,539 & 1,658 c. ft.	{ 1,328 & 813 c. ft.	{ 5,867 & 2,471 c. ft.	{ 2,76,527	{ 5,591 & 2,100 c. ft.	{ 2,66,107	
1,083 & 26 rafts.	13. Total of same month last year.	{ 3,265 & 1,183 c. ft.	{ 1,568 & 2,808 c. ft.	{ 4,833 & 3,986 c. ft.	{ 2,59,204	{ 4,788 & 3,986 c. ft.	{ 2,58,543	
14. Total number of boats plying cargo No.		673	772	1,445	Total tollage of month— 24+25+26 ...		Ra. A. P. 7,972 9	
15. Total number of boats plying passenger No.		67	72	139	Total tollage of same month last year ...		7,266 6	
16. Total registered tonnage, cargo Tons		8,653	6,044	14,697	Memorandum of Tollage.			
17. Total registered tonnage, passenger Tons		982	859	1,841				
18. Ton-mileage ...		268,967	182,811	451,778				
19. Estimated value of cargo Ra.		166,982	108,666	2,75,648				
20. Number of passengers No.		2,444	2,339	4,783				
21. Rafts, bamboos C. ft.		630	762	1,392	1. Balance not recovered on the 1st of the month ...		5,854 6	
22. Do., bullahs "		1,028	51	1,079	2. Tollage per month ...		7,972 9	
23. Estimated value of rafts Ra.		738	141	879	3. Total ...		13,826 15	
24. Tollage on boats "		4,708-15-0	3,222-3-6	7,931-2-6	4. Amount paid into treasury during the month ...		8,371 14	
25. Compounded tollage on boats Ra.		.....	.....	.....	5. Balance due at the end of the month ...		5,455 1	
26. Tollage on rafts "		37-8-0	3-15-0	41-7-0				
27. Total tollage on boats per ton-mile Ra.		.....	.....	0-0-3-3				
28. Total tollage on rafts per 100 cubic feet Ra.		.....	.....	1-10-9				

Abstract for the month of March 1890 as compared with the corresponding month of the previous year.

	1889-90.		1890-91.	
	During the month.	To end of the month.	During the month.	To end of the month.
	Ra. A. P.	Ra. A. P.	Ra. A. P.	Ra. A. P.
Tollage ...	7,972 9 6	63,231 6 6	7,266 6 3	67,372 11 6

CALCUTTA,
The 19th May 1890.G. A. G. SHAW,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing quantities of Goods carried during the month of March 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupess.	Tons.	Rupess.	
919	1. Grain ...	19,476	21	19,497	21,76,078	19,497	21,76,078	* For details, see next page.
5	2. Cotton ...	95	.....	95	48,150	95	48,150	
14	3. Oilseeds ...	109	41	150	24,750	150	24,750	
404	4. Salt ...	408	7,091	7,499	7,34,895	7,499	7,34,895	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
41	6. Metal ...	566	13	579	78,400	579	78,400	
265	7. Building materials ...	7,401	238	7,639	1,30,755	7,639	1,30,755	
1,857	8. Miscellaneous* ...	12,654	1,714	14,368	17,31,533	14,368	17,31,533	
534	9. Fuel ...	11,870	1,391	13,261	1,00,103	13,261	1,00,103	
...	10. Timber ...	.....	.....	.....	.....	.....	.....
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....
4,039	12. Total ...	52,579	10,509	63,088	50,24,664	63,088	50,24,664	* For details, see next page.
3,860 & 5 rafts.	13. Total of same month last year	53,767 & 1,200 c. ft.	8,308	62,075 & 1,200 c. ft.	45,77,252	62,075 & 1,200 c. ft.	45,77,252	
14. Total number of boats plying cargo No.		3,436	603	4,039	Total tollage of month— 24 + 25 + 26 ...		Rs. A. P. 37,335 12 6	
14a. Ditto empty boats ..		1,902	841	2,743				
15. Total number of boats plying passenger No.		500	3	503	Total tollage of same month last year ...		38,645 1 3	
16. Total registered tonnage, cargo Tons		165,311	27,767	193,078	Memorandum of Tollage.			
17. Total registered tonnage, passenger Tons		1,042	16	1,058				
18. Ton-mileage ...		14,71,085	277,670	1,748,755			Rs. A. P.	
19. Estimated value of cargo Rs.		40,90,507	9,34,157	50,24,664	1. Balance not recovered on the 1st of the month ...		1,604 6 9	
20. Number of passengers No.		2,239	12	2,251	2. Tollage per month ...		37,335 12 6	
21. Rafts, bamboos C. ft.		...	.....	.....	3. Total ...		38,940 3 3	
22. Do., bullahs ..		...	.....	.....
23. Estimated value of rafts Rs.		.....	.....	.....	4. Amount paid into treasury during the month ...		38,406 10 6	
24. Tollage on boats ..		30,528-10-6	6,807-2-0	37,335-12-6	5. Balance due at the end of the month ...		533 8 9	
25. Compounded tollage on boats Rs.		.....	.....	.....	
26. Tollage on rafts ..		.....	.....	.....
27. Total tollage on boats per ton-milo Rs.		.....	.....	C-0-4-09				
28. Total tollage on rafts per 100 cubic feet Rs.		.....	.....	.....	

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).
CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupers.	Tons.	Rupers.	
274	(a) Jute ...	7,221	.....	7,221	9,09,855	7,221	9,09,855	
82	(b) Jaggery ...	692	108	795	1,11,250	795	1,11,250	
10	(c) Sugar ...	52	.....	52	13,775	52	13,775	
2	(d) Tobacco ...	.....	4	4	875	4	875	
567	(e) Fish ...	168	1	169	47,277	169	47,277	
3	(f) Hides ...	2	.....	2	380	2	380	
70	(g) Poultry ...	16	.....	16	13,839	16	13,839	
168	(h) Hay and straw ...	1,489	.....	1,489	31,278	1,489	31,278	
75	(i) Oil ...	11	1,128	1,139	1,59,425	1,139	1,59,425	
49	(k) Earthenware ...	63	1	64	900	64	900	
557	(m) Other miscellane- ous ...	2,940	477	3,417	4,42,679	3,417	4,42,679	
1,857	Total Miscellaneous...	12,654	1,714	14,368	17,31,533	14,368	17,31,533	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.
SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing quantities of Goods carried during the month of March 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupess.	Tons.	Rupess.	
3,697	1. Grain ...	12,379	.....	12,379	12,69,545	12,379	12,69,545	For details, see next page.
3	2. Cotton ...	22	.....	22	11,250	22	11,250	
3	3. Oilseeds ...	25	.....	25	3,500	25	3,500	
75	4. Salt ...	514	412	926	90,737	926	90,737	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
7	6. Metal ...	128	.....	128	15,900	128	15,900	
322	7. Building materials ...	2,645	25	2,670	10,445	2,670	10,445	
1,175	8. Miscellaneous* ...	4,089	63	4,152	3,53,276	4,152	3,53,276	
187	9. Fuel ...	2,629	141	2,770	21,274	2,770	21,274	
rafts.	10. Timber ...	1,528 c. ft.	.....	1,528 c. ft.	3,820	1,528 c. ft.	3,820	
"	11. Bamboos ...	633 "	.....	633 "	105	633 "	105	
5,469 & 4 rafts.	12. Total ...	{ 22,431 & 2,161 c. ft.	641	{ 23,072 & 2,161 c. ft. }	17,79,852	{ 23,072 & 2,161 c. ft. }	17,79,852	For details, see next page.
4,251 & 12 rafts.	13. Total of same month last year ...	{ 21,330 & 1,577 c. ft.	473	{ 21,803 & 1,577 c. ft. }	12,54,806	{ 21,803 & 1,577 c. ft. }	12,54,806	
		Up.	Down.	Total.				Rs. A. P.
14.	Total number of boats plying cargo ... No.	5,396	73	5,469	Total tollage of month— 24+25+26 ...			11,337 1 3
15.	Empty ...	924	164	1,088	Total tollage of same month last year ...			10,929 0 6
16.	Total registered tonnage, cargo ... Tons	70,685	2,358	73,043	Memorandum of Tollage.			
17.	Total registered tonnage, passenger ... Tons	876	24	900				Rs. A. P.
18.	Ton-mileage ...	5,97,886	37,728	6,35,564	1. Balance not recovered on the 1st of the month ...			222 11 6
19.	Estimated value of cargo Rs.	17,29,299	46,628	17,75,927	2. Tollage per month ...			11,337 1 3
20.	Number of passengers No.	2,689	49	2,738				
21.	Rafts, bamboos C. ft.	633	.....	633				
22.	Do., bullahs "	1,528	.....	1,528	3. Total ...			11,559 12 9
23.	Estimated value of rafts Rs.	3,925	.....	3,925				
24.	Tollage on boats "	10,725-1-3	583-0-0	11,308-1-3				
25.	Compounded tollage on boats ... Ra.	.....	.....	.....	4. Amount paid into treasury during the month ...			11,377 9 9
26.	Tollage on rafts "	29-0-0	.....	29-0-0				
27.	Total tollage on boats per ton-mile Pie	.....	.....	0-0-3-41	5. Balance due at the end of the month ...			182 3 0
28.	Total tollage on rafts per 100 cubic feet ... Ra.	.....	.....	1-5-5				

**ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).
TOLLY'S NULLAH.**

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupces.	Tons.	Rupces.	
6	(a) Jute ...	77	.....	77	9,675	77	9,675	
99	(b) Jaggery ...	721	3	724	1,01,375	724	1,01,375	
.....	(c) Sugar ...	.....	.....	.....	.....	.....	.....
13	(d) Tobacco ...	128	.....	128	25,095	128	25,095	
183	(e) Fish ...	38	.....	38	10,680	38	10,680	
.....	(f) Hides ...	.....	.....	.....	.....	.....	.....
4	(g) Poultry ...	1	.....	1	300	1	300	
426	(h) Hay and straw...	1,281	.....	1,281	14,694	1,281	14,694	
35	(i) Oil ...	306	.....	306	42,875	306	42,875	
128	(k) Earthenware ...	155	14	169	2,362	169	2,362	
281	(m) Other miscellaneous.	1,382	46	1,428	1,46,220	1,428	1,46,220	
1,175	Total Miscellaneous...	4,089	63	4,152	3,53,276	4,152	3,53,276	

**ABSTRACT FOR THE MONTH OF MARCH 1890, AS COMPARED WITH THE
CORRESPONDING MONTH OF THE PREVIOUS YEAR.**

	TRAFFIC, 1889-90.				TRAFFIC, 1890-91.			
	During the month.		To end of the month.		During the month.		To end of the month.	
	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.
Calcutta and Eastern Canals ...	37,335	12 6	3,76,607	3 6	38,645	1 3	4,32,287	12 3
Tolly's Nullah ...	11,337	1 3	1,05,672	3 9	10,929	0 6	1,33,203	4 9
Total ...	48,672	13 9	4,82,279	7 3	49,574	1 9	5,65,491	1 0

Calcutta,
The 20th May 1890.

G. A. G. SHAW, *Under-Secretary to the Govt. of Bengal.*

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 17th May 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 17TH MAY 1890.			WEEK ENDING SATURDAY, THE 16TH MAY 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	137	37,925	538	247	74,795	1,161
Jute ...	18	16,560	248	14	7,650	105
Firewood ...	80	54,176	849	33	14,725	222
Other articles ...	550	1,54,016	2,313	582	2,34,610	2,991
Total ...	794	2,72,206	3,939	976	2,22,080	4,479

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of February 1890, as compared with the same month of the previous year.

STAPLES.	1889.		1890.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1890.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	4,921	16	5,038	46	4,938	5,084	.....	246
Cotton twist and yarn—								
1.—European	.....	.....	.....	.....	.....	.....	.....	.....
2.—Indian	.....	.....	.....	.....	.....	.....	.....	.....
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	302	23	184	.....	333	185	148	.....
b.—In boxes	.....	.....	.....	.....	.....	.....	.....	.....
2.—Indian—								
a.—In bales and bundles	.....	.....	.....	.....	.....	.....	.....	.....
b.—In boxes	.....	.....	.....	.....	.....	.....	.....	.....
Grains—								
1.—Rice	21	43	8	45	64	82	18	.....
2.—Others	60	137	29	469	187	604	.....	311
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	.....	.....	.....	.....	.....	.....	.....	.....
b.—Undressed	.....	.....	.....	.....	.....	.....	.....	.....
2.—Skins of sheep, &c.—								
a.—Dressed	.....	.....	.....	.....	.....	.....	.....	.....
b.—Undressed	.....	.....	.....	.....	.....	.....	.....	.....
Jute—								
1.—Raw—								
a.—Unscoured	.....	.....	.....	.....	.....	.....	.....	.....
2.—Gunny-bags and cloth	10	.....	13	78	100	78	22	.....
Metals—								
1.—Copper, unwrought	.....	.....	.....	.....	.....	.....	.....	.....
2.—Brass, unwrought	.....	.....	.....	.....	.....	.....	.....	.....
3.—Brass and copper, wrought	.....	.....	.....	.....	.....	.....	.....	.....
4.—Iron	86	21	88	28	114	96	18	.....
5.—Tin	.....	.....	.....	.....	.....	.....	.....	.....
6.—Others	.....	.....	.....	.....	.....	.....	.....	.....
Oils—								
1.—Kerosine	122	.....	83	.....	122	83	39	.....
2.—Others	156	.....	62	.....	180	45	135	.....
Oilseeds—								
1.—Mustard	.....	.....	.....	.....	.....	.....	.....	.....
2.—Rape and mustard	.....	.....	.....	.....	.....	.....	.....	.....
3.—Til or gingelly	.....	.....	.....	.....	.....	.....	.....	.....
4.—Sesam	.....	.....	.....	.....	.....	.....	.....	.....
5.—Castor	177	61	24	460	236	533	.....	296
6.—Poppy	.....	.....	.....	.....	.....	.....	.....	.....
7.—Others	.....	.....	.....	.....	.....	.....	.....	.....
Provisions—								
1.—Betel-nuts	2	1,907	.....	69	1,009	69	940	.....
2.—Others	168	160	162	174	335	336	23	.....
Railway plant and rolling-stock	79	26	31	11	109	42	67	.....
Salt	196	.....	127	.....	125	127	68	.....
Sugar—								
1.—Drained	88	264	28	1,186	446	1,813	.....	767
2.—Undrained	.....	.....	.....	.....	.....	.....	.....	.....
Tobacco	19	9	10	12	28	23	5	.....
Other articles of merchandise—								
1.—Unmanufactured	.....	.....	.....	.....	.....	.....	.....	.....
2.—Manufactured	418	173	223	167	691	440	101	.....
Total	6,730	2,221	6,146	2,817	9,851	9,962	1,110	1,621

Comparative Statement of the principal commodities carried over the Bengal Central Railway during the month of February 1890.

	Tons.
INCREASES.	
Cotton manufactures	150
Due to increasing demand for up-country consumption.	.....
Betel-nuts	940
Almost exclusively from the B. C. Flotilla Service	.....
DECREASES.	
Coal	246
Ordinary fluctuations, the traffic being principally for Railway and Flotilla consumption.	.....
Oil-seeds	295
Falling off in despatches from Chandpora, Bongong, Jadabpur, Nabhoran, and Jhikargacha.	.....
Sugar	767
This decrease was in despatches from Jhikargacha said to be due to limited production.	.....

F. P. QUINLAN,

Examiner of Accounts and Joint Auditor.

CALCUTTA, the 15th May 1890.

EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the five weeks ended 30th March 1890,
as compared with the same period of 1889.

STAPLES.	1890.		1889.		Increase.		Decrease.	
	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.
	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.
ANIMALS, LIVING	No.		No.		No.		No.	
Horses, ponies, and mules	135	2,689	99	1,798	36	1,001	34	...
Cattle	97	743	91	482	6	261	...	...
Sheep and goats	4,245	3,578	4,255	3,801	10	...	...	...
Other kinds	31	103	33	133	2	...	...	...
BORNS								
Gums and rattans	2,714	1,951	2,074	1,893	640	118	...	...
Castor oil (Indian-rubber)	143	180	91	133	52	17	...	...
Chinese and Japanese ware	47	10	63	15	16	...	...	...
Coal and coke, up	34	8	43	17	9	...	...	...
Do., down	13,32,611	3,38,012	11,12,701	3,40,083	2,19,910	...	...	...
Cotton, raw	57,98,304	5,03,906	38,24,204	5,20,944	19,74,100	...	...	...
	1,34,404	1,70,782	1,67,040	1,36,688	6,833	43,116	...	...
COTTON, MANU-FACTURED.								
Twist and yarn (European)	9,000	10,004	10,080	13,744	1,080	...	...	...
Do. (Indian)	12,017	7,037	13,219	7,060	1,202	...	...	...
Piece-goods (European)	1,04,073	2,20,334	1,75,712	2,26,123	71,639	...	...	...
Do. (Indian)	29,616	14,584	29,051	14,539	565	...	...	...
Amfetida	304	250	433	217	129	...	...	...
Other sorts, not intoxicating	2,816	2,833	2,463	2,513	353	...	...	...
Intoxicating drugs (other than opium, i.e., arsenic, bhanga, ganja, and charas, &c.)	1,021	587	1,004	304	17	...	...	...
DYES AND MEDICINES.								
Indigo	783	1,097	767	1,084	16	...	...	...
Madder or manjit	63	10	65	12	2	...	...	...
Safflower	8,570	4,470	1,477	1,541	7,093	2,929	...	...
Turneric	16,880	10,018	11,845	8,497	5,035	...	...	...
Other kinds	10,218	5,831	11,939	7,439	1,721	...	...	...
Earthenware and porcelain	1,31	2,482	1,097	2,341	214	101	...	...
Do., raw	27,113	7,895	20,911	6,054	6,202	4,841	...	...
FIBROUS PRO-DUCTS.								
Do., manufactured (gunny bags and cloths)	1,01,306	48,000	94,180	44,917	7,126	3,173	...	...
Do., raw	20,573	6,468	24,180	8,335	3,607	...	...	...
Do., manufactured	2,900	771	1,423	351	1,479	...	...	...
FRUITS & NUTS								
Cocoanuts	3,708	2,067	3,800	3,771	92	...	...	...
All other kinds	44,807	27,300	38,082	25,259	6,725	...	...	...
Wheat	2,02,006	74,004	2,37,078	89,714	35,072	...	...	...
Gram and pulses	3,40,838	89,705	2,53,738	68,123	87,100	...	...	...
Rice, husked	9,74,130	1,60,069	9,70,410	1,65,009	3,720	...	...	...
Do., unhusked	4,713	1,740	42,833	6,310	38,120	...	...	...
Other rain and spring crops	70,942	10,310	1,01,783	14,550	30,841	...	...	...
GOVERNMENT STORES	30,000	45,507	24,000	38,000	6,000	10,507	...	...
Gums and resins	4,778	2,840	4,900	2,570	178	...	...	...
HIDES & SKINS...								
Hides of cattle	63,402	31,661	61,781	33,989	1,621	...	...	...
Skins of sheep, goats, and small animals	11,463	4,583	18,173	4,051	6,710	...	...	...
HORNS	2,071	1,167	1,830	1,083	241	...	...	...
LAC								
Lac, dye	19,680	13,819	17,540	13,546	2,140	...	...	...
Do., shell	22,213	7,001	22,421	7,300	208	...	...	...
Do., stick and other kinds	1,017	3,006	1,054	3,001	37	...	...	...
LEATHERS								
Leather, unmanufactured	3,453	3,540	3,117	3,802	649	...	...	...
Do., manufactured	10,607	19,495	11,477	17,834	7,288	...	...	...
LIQUORS								
Do.	1,073	561	1,000	470	73	...	...	...
MINERALS								
Do.	2,75,437	33,755	2,67,235	34,788	8,202	...	...	...
METALS AND MANUFACTURES OF.								
Brass and copper	38,782	24,000	18,321	11,000	20,461	...	...	...
Iron	1,25,630	89,575	1,01,270	60,540	24,360	...	...	...
Other metals	7,177	84,480	53,701	24,943	28,779	...	...	...
Oil	173	248	38,722	38,301	37,449	...	...	...
Opium	10,189	8,072	2,672	3,424	7,517	...	...	...
Paints and colours	35,048	83,361	80,101	18,700	16,667	...	...	...
PROVISIONS								
Ghee	11,247	10,316	10,316	10,316	...	...	...	...
Other kinds	40,280	2,040	1,90,633	3,364	1,46,353	...	...	...
RAILWAY MATERIALS, Construction Account	4,41,160	1,46,351	3,10,366	62,000	1,30,794	...	...	...
Do., ditto, Foreign	6,00,573	1,18,787	6,00,037	1,14,770	538	...	...	...
SALT								
Do.	1,32,535	60,082	53,760	27,061	78,774	...	...	...
SALTPETRE, &c.								
Saltpetre	9,488	5,020	18,027	4,714	8,539	...	...	...
Other saline substances	4,10,833	1,24,008	3,07,613	83,728	1,07,120	...	...	...
SEEDS								
Mustard and rape	3,02,137	87,234	3,00,047	72,214	2,32,123	...	...	...
Oil or singly	17,307	5,233	5,437	886	11,870	...	...	...
Other oilseeds	20,683	19,406	21,045	21,045	...	...	...	...
OTHER SEEDS.								
Indigo seed	27,533	5,940	44,843	11,726	17,310	...	...	...
Tea seed	40,942	15,225	35,662	8,675	5,260	...	...	...
Other kinds	2,304	1,402	2,853	1,390	549	...	...	...
SILK								
Do., manufactured (European)	...	345	301	388	43	...	...	...
Do., ditto (Indian)	40,082	31,480	45,080	32,103	5,098	...	...	...
SPICES								
Gums and marble	2,44,121	33,017	2,30,800	32,893	13,321	...	...	...
STARCH								
Sugar, refined	3,82,920	78,352	2,00,170	50,746	1,82,750	...	...	...
Do., unrefined	3,17,283	79,017	4,00,433	61,070	83,146	...	...	...
TEA								
Do., Indian	1,027	1,304	2,518	2,581	1,554	...	...	...
Do., Foreign	47,729	33,331	38,800	16,519	11,210	...	...	...
TOBACCO								
Do.	1,32,000	26,190	85,617	18,173	46,823	...	...	...
WOOD								
Timber	74,281	4,781	30,081	2,903	44,200	...	...	...
Do., raw	109	631	746	630	637	...	...	...
WOOL								
Do., manufactured (European)	...	...	...	...	...	...	...	...
Do., manufactured (Indian)	1,174	3,130	1,137	1,025	37	...	...	...
Shawls	3,41,960	8,03,308	3,33,502	8,08,483	8,463	...	...	...
ALL OTHER ARTICLES OF MERCHANDISE	74,993	22,007	84,030	8,045	40,372	...	...	...
Bonds	63,728	10,000	60,010	11,030	3,718	...	...	...
TOTAL	1,30,30,854	31,90,061	1,14,32,800	29,80,317	15,98,046	4,09,743	1,60,476	...

General remarks on the fluctuation of principal staples carried over the East Indian Railway during five weeks ended 29th March 1890.

INCREASES.

Cotton.—The large increase in earnings, as compared with weight carried, is attributed to considerable despatches having been made to Calcutta from stations above Cawnpore over long leads.

Gram and Pulses.—The increase is chiefly in despatches from stations on the Dinapore and Allahabad districts to Howrah, for shipment to Burmah.

Government Stores.—Principally in despatches of ammunition for Government from Howrah to Agra.

Iron.—This consisted chiefly of iron pipes and machinery for water-works at Allahabad, Agra and Delhi, from Howrah.

Oils.—Chiefly in despatches of kerosine-oil from Howrah to Jubbulpore, Agra, Delhi, and *via* Ghaziabad.

Foreign Railway Material.—Chiefly in despatches from Howrah to Umari and Umballa Cantonment.

Saltpetre.—Chiefly from the North-West Provinces to Howrah.

Seeds.—The improvement was due to a demand for linseed and mustard seed in Calcutta for export.

Timber.—Principally in despatches of sleepers and teak timber from Howrah to Mokameh Ghat and Agra.

Sugar (refined).—Large quantities were despatched principally from stations on the Shahabad district and Cawnpore to Agra, Delhi, *via* Jubbulpore and *via* Agra.

Bones.—Chiefly in despatches from *via* Moghul Serai and Delhi to Bally.

DECREASES.

Coal and Coke.—There was an increase in weight carried attended with a decrease in the earnings.

Rice (husked and unhusked).—The continued absence of demand from the upper districts caused this decrease.

Hides.—The decrease was chiefly due to supplies having fallen short of actual requirements.

Opium.—This was due to smaller despatches from Patna and *via* Tari Ghat to Howrah.

N. ST. L. CARTER, Traffic Manager.

TRAFFIC MANAGER'S OFFICE, CALCUTTA, the 18th May 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 10th May 1890, on 1,526½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIL-MILES RCP.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	281,400	2,63,000 0 0	94,89,190 10	6,30,552 3 3	20,702 0 0	9,15,240 12 3	63,471	97,390	1,60,861
per mile of railway ...	175 0 11	175 0 11	61,690 10	413 5 6	13 9 2	599 15 6	...	...	...
of previous 10 weeks of half-year ...	6,957,808	62,67,430 15 0	4,78,44,703 0	1,10,90,228 12 0	3,80,474 1 9	1,86,67,123 12 9	1,191,197½	1,737,042½	2,928,240
Total for 10 weeks ...	4,959,254	65,11,416 5 0	4,99,54,000 10	1,17,10,780 13 8	3,80,174 1 0	1,76,02,373 9 0	1,240,666½	1,834,084½	3,074,751
COMPARISON.									
Total for corresponding week of previous year ...	304,417	2,69,273 12 10	81,44,960 10	7,18,507 3 11	18,903 15 6	10,06,775 0 5	65,271	110,270	175,541
per mile of railway correspond- ing week of previous year ...	...	175 5 3	...	471 0 0	12 7 2	649 15 0	...	...	...
Total to corresponding date of previous year ...	6,086,638	67,14,930 12 0	6,34,18,400 10	1,17,14,457 3 7	3,16,833 4 9	1,77,46,440 5 4	1,252,006	1,857,846	3,110,852

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 11th MAY 1890.				RECEIPTS FOR WEEK ENDING 10th MAY 1890.				TOTAL RECEIPTS FROM 1st APRIL 1889 TO 11th MAY 1890.				TOTAL RECEIPTS FROM 1st APRIL 1889 TO 10th MAY 1890.		Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.		
1,526½	10,00,775	660	1,526½	9,15,240	600	1,535½	19,20,547	614	1,525½	19,20,547	604	18,55,786	594	...	1,86,761

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 10th May 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	13,482	6,303 11 0	81,383 20	2,681 7 0	42 4 0	9,997 6 0	1,511	1,046	2,557
Or per mile of railway ...	234	110 3 8	696 80	63 13 3	0 11 10	176 12 6	.....	.....	.....
For previous 18 weeks of half-year ...	242,602	1,22,632 3 0	8,63,105 10	57,173 7 0	609 0 0	1,80,734 10 0	20,000	12,930	48,930
Total for 19 weeks ...	256,084	1,29,935 14 0	9,34,508 0	60,854 14 0	761 4 0	1,80,732 0 0	21,511	13,976	45,487
COMPARISON.									
Total for corresponding week of previous year ...	13,054	5,658 3 4	67,804 20	2,380 4 0	41 10 9	8,900 2 1	1,797	955	2,752
Per mile of railway corresponding week of previous year ...	227	98 14 0	1,180 20	67 5 7	0 11 8	157 15 11	.....	.....	.....
Total to corresponding date of previous year ...	272,004	1,40,118 10 4	8,16,523 20	67,973 12 0	1,440 5 6	1,95,548 16 10	23,005	13,040	47,045

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 11TH MAY 1889.			RECEIPTS FOR WEEK ENDING 10TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 11TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 10TH MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	9,997	187	57½	9,997	175	57½	57,948	109	57½	62,121	181	4,173	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 10th May 1890, on 23½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	20,880	5,170 0 0	11,510 20	425 4 0	7 6 8	5,600 10 0	897	236	1,132
Or per mile of railway ...	.....	232 5 9	.....	19 0 4	0 6 4	251 11 5	.....	.....	.....
For previous 18 weeks of half-year ...	308,614	1,08,111 3 0	2,80,910 20	6,700 10 0	183 11 0	1,17,067 8 0	15,938	1,838	17,773
Total for 19 weeks ...	419,494	1,18,291 3 0	2,70,920 10	9,183 14 0	193 1 0	1,22,655 2 0	16,855	2,080	18,935
COMPARISON.									
Total for corresponding week of previous year ...	23,624	5,613 8 9	11,891 30	304 15 0	9 9 6	6,613 1 3	911	87	998
Per mile of railway corresponding week of previous year ...	.....	270 4 4	.....	17 12 0	0 6 11	289 7 3	.....	.....	.....
Total to corresponding date of previous year ...	448,004	1,17,546 9 0	1,84,045 0	6,804 16 0	197 12 6	1,24,530 8 6	17,512	1,160	18,672

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 11TH MAY 1889.			RECEIPTS FOR WEEK ENDING 10TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 11TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 10TH MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
23½	1,132	86	23½	1,132	222	23½	42,174	209	23½	41,305	210	.....	1,779

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 3rd May 1890, on 747 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	224,616	75,050 0 0	6,13,100 0	1,02,160 0 0	20,850 0 0	2,04,990 0 0	23,131	29,667	52,798
per mile of railway...	327	102 0 0	821 0	137 0 0	28 0 0	274 0 0	...	...	...
for previous 17 weeks of half-year...	3,602,710	13,30,417 0 0	97,77,090 0	17,74,266 0 0	3,25,200 0 0	24,29,073 0 0	292,648	662,373	955,021
Total for 18 weeks...	3,827,326	14,05,467 0 0	1,03,90,190 0	18,76,426 0 0	3,27,050 0 0	26,31,053 0 0	405,079	831,942	1,237,021
COMPARISON.									
Total for corresponding week of previous year...	174,773	61,730 0 0	5,68,319 0	79,704 0 0	13,600 0 0	1,65,054 0 0	21,623	22,636	44,259
per mile of railway corresponding period of previous year...	230	82 0 0	768 0	115 0 0	18 0 0	213 0 0	...	...	...
Total for corresponding date of previous year...	2,666,439	13,55,100 0 0	99,88,658 0	16,09,038 0 0	3,15,862 0 0	21,74,100 0 0	284,098	426,236	710,334

* Audited up to week ending 16th March 1890.

† Excluding steamer earnings.

• Due to Full Dole Jatra held at Khurdaha.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 4TH MAY 1890.			RECEIPTS FOR WEEK ENDING 3RD MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 4TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 3RD MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	1,55,064	200	747	2,04,990	274	673	7,08,592	225	747	5,73,739	234	1,04,746	.....

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 3rd May 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	30,250	9,980 0 0	48,350 0	2,940 0 0	150 0 0	13,070 0 0	2,738	1,037	3,775
per mile of railway...	242	80 0 0	387 0	24 0 0	1 0 0	105 0 0	...	...	...
for previous 17 weeks of half-year...	472,944	1,63,154 0 0	9,17,897 0	52,462 0 0	1,048 0 0	22,76,664 0 0	61,962	32,301	94,263
Total for 18 weeks...	503,194	1,73,114 0 0	9,66,247 0	55,402 0 0	1,198 0 0	23,29,794 0 0	64,637	34,233	98,870
COMPARISON.									
Total for corresponding week of previous year...	24,400	9,312 0 0	68,961 0	4,115 0 0	123 0 0	13,549 0 0	3,620	2,032	5,652
per mile of railway corresponding period of previous year...	276	74 0 0	554 0	33 0 0	1 0 0	108 0 0	...	...	...
Total for corresponding date of previous year...	319,885	1,70,128 0 0	10,22,467 0	57,930 0 0	4,080 0 0	24,17,707 0 0	66,046	34,635	100,681

* Audited up to week ending 16th March 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 4TH MAY 1890.			RECEIPTS FOR WEEK ENDING 3RD MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 4TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 3RD MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	19,649	158	125	13,070	105	125	64,026	103	125	56,826	94	.....	5,200

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 3rd May 1890, on 88 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	18,790	5,220 0 0	17,480 0	1,770 0 0	70 0 0	7,060 0 0	2,415	700	3,115
Or per mile of railway ...	175	61 0 0	203 0	20 0 0	1 0 0	82 0 0			
For previous 17 weeks of half-year ...	292,370	99,017 0 0	4,37,020 0	41,115 0 0	2,874 0 0	1,43,800 0 0	41,098	12,100	53,198
Total for 18 weeks ...	309,160	1,04,837 0 0	4,40,500 0	42,885 0 0	2,944 0 0	1,46,600 0 0	43,513	12,800	56,313
COMPARISON.									
Total for corresponding period of previous year ...	16,098	4,233 0 0	13,607 0	675 0 0	223 0 0	5,135 0 0	2,085	523	2,608
Or per mile of railway corresponding period of previous year ...	167	49 0 0	155 0	8 0 0	3 0 0	60 0 0			
Total to corresponding date of previous year ...	284,972	95,769 0 0	3,11,565 0	17,709 0 0	3,008 0 0	1,07,480 0 0	44,075	12,065	56,140

* Audited up to week ending 16th March 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 4TH MAY 1889.			RECEIPTS FOR WEEK ENDING 3RD MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 4TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 3RD MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
88	5,165	60	84	7,009	83	86	24,709	28	84	25,030	30	10,781	.....

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 10th May 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,267	1,150 0 0	4,982 0	308 0 0	16 0 0	1,474 0 0	540	284	824
Or per mile of railway ...	120	42 0 0	181 0	11 0 0	1 0 0	54 0 0			
For previous 17 weeks of half-year ...	53,441	21,093 0 0	2,20,308 0	13,975 0 0	1,773 0 0	26,540 0 0	8,944	2,803	11,747
Total for 18 weeks ...	62,108	22,243 0 0	2,25,290 0	14,283 0 0	1,789 0 0	28,314 0 0	9,543	3,557	13,100
COMPARISON.									
Total for corresponding week of previous year ...	3,095	1,151 0 0	7,971 0	634 0 0	16 0 0	1,801 0 0	500	263	763
Or per mile of railway corresponding week of previous year ...	114	42 0 0	290 0	23 0 0	1 0 0	66 0 0			
Total to corresponding date of previous year ...	62,793	23,772 0 0	2,08,540 0	13,828 0 0	1,468 0 0	26,063 0 0	9,505	3,376	12,881

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 11TH MAY 1889.			RECEIPTS FOR WEEK ENDING 10TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 11TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 10TH MAY 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	1,801	66	27½	1,876	68	27½	9,613	69	27½	9,610	69	.....	203

TIRHOOT STATE RAILWAY.

* Approximate Return of Traffic for the week ending 10th May 1890, on 273 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
total traffic for the week ...	46,765	16,371 0 0	2,24,307 0	27,640 0 0	3,028 0 0	47,699 0 0	4,023	9,112	13,035
Or per mile of railway ...	169	60 0 0	822 0	101 0 0	4 0 0	165 0 0			
for previous 17 weeks of half-year ...	630,477	3,40,402 0 0	46,70,231 0	6,34,732 0 0	50,096 0 0	9,30,232 0 0	94,966	170,522	265,772
Total for 18 weeks ...	677,242	3,56,773 0 0	48,94,538 0	6,62,362 0 0	53,124 0 0	9,77,361 0 0	98,973	179,534	278,507
COMPARISON.									
Rate for corresponding week of previous year ...	46,701	16,616 0 0	2,21,830 0	21,072 0 0	4,641 0 0	41,929 0 0	4,780	6,716	11,496
Per mile of railway corresponding week of previous year ...	169	61 0 0	821 0	77 0 0	1 0 0	155 0 0			
Total to corresponding date of previous year ...	612,666	3,67,143 0 0	29,43,492 0	3,65,623 0 0	65,068 0 0	6,37,854 0 0	100,471	186,499	286,970

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

* Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 11TH MAY 1889.			RECEIPTS FOR WEEK ENDING 10TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 11TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 10TH MAY 1890.			Total increase in 1890-91.	Total decrease in 1889-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	61,680	162	273	47,000	172	273	2,35,485	120	273	2,77,697	100	22,203

[REGISTERED No. 29.]

No. 22 of 1890.



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WEDNESDAY, MAY 28, 1890.

OFFICIAL PAPERS.

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ringhee, from 18th to 24th May 1890 ...	1102		

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 24th May, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
BUREWAL DIV.	1 Burdwan May 24, '90	1.76	Weather—hot and seasonable with occasional showers. The rain has done much good. <i>Ass</i> is being sown in some places, and lands are being prepared for <i>amun</i> . More rain wanted, especially in Ranigunge. Prices of common rice:—
	Culina ...	1.53	
	Cutwa ...	1.63	
	Ranigunge ...	0.80	
	2 Bankura .. 24, '90	2.29	Weather—seasonable. The rainfall of the week has been very favourable to agricultural operations and to crops on the ground. Common rice sells at 15 seers per rupee at Sudder and at 18 seers at Bissanpore.
	3 Birbhum .. 24, '90	0.29	Weather—cool for the season; afternoons usually cloudy, attended with high wind. Sugarcane planting going on. Common rice selling at from 16 to 20 seers per rupee.
	Banspore Haut ...	0.59	Good rain throughout the district; though somewhat late for the <i>ass</i> crop, yet it is sufficient for ploughing of all lands. Prices of common rice:—
	4 Midnapur .. 24, '90	2.42	
			Sudder ... 18 } per rupee. Ghatal ... 16 }
PRESIDENCY DIV.	5 Hooghly .. 24, '90	2.53	Weather—not hot for the time of year. Rain has done much good; ploughing for <i>ass</i> commenced. Prices of common rice:—
	Serampore ...	1.16	
	Jehanabad ...	2.30	
	Howrah .. 24, '90	1.29	Weather—hot; at times cloudy. Seasonable rain which fell will help ploughing for next crop. Price of common rice 12 seers per rupee.
	<i>Central Districts.</i>		
	6 24-Parghas May 24, '90	1.37	Weather—hot. Sowing of <i>ass</i> paddy and jute proceeding. The rain has done much good to the young plants which have already appeared. Sugarcane doing well. Prices of common rice stationary.
	7 Nadia .. 24, '90	0.84	Weather—seasonable. Rain during the week beneficial to sowing and to young plants. More rain needed.
	Kushtia ...	2.44	
	Maherpara ...	0.65	
	Chandanga ...	2.36	
	Ranaghat ...	1.47	
	8 Khosla .. 24, '90	0.15	Weather—hot; rainy in Sathkira. Cultivation of <i>ass</i> going on. <i>TW</i> , the only crop on the ground, has been slightly injured in the Khosla thana; elsewhere its condition is good.
	Bagirhat ...	0.50	Weather—cool in the first part of the week; hot latterly. Rain good for the sowings of <i>ass</i> , <i>amun</i> , mango, and jute, which are going on briskly. <i>Indigo</i> has been cultivated on the normal area. Harvesting of <i>boro</i> nearly over.
	Batahira ...	3.43	
	9 Jessore .. 24, '90	0.00	
	Jhenidah ...	0.56	
	Magura ...	2.36	
RAJSHAHY DIV.	10 Moorsahabad .. 24, '90	0.37	Weather—hot with storms. Rain is much needed, especially in the south of the district. Sowing of <i>ass</i> is retarded.
	11 Dinagpur .. 24, '90	0.96	Weather—getting warm, though raining at intervals. Jute doing well. <i>Bhadol</i> sowing and sugarcane planting nearly over. Price of rice at Sudder and Thakurgaon stationary.
	Thakurgaon ...	1.07	
	12 Rajshahye ..	...	Report not received.
	13 Rungpur .. 24, '90	1.12	Weather—sultry days with cool nights and frequent showers. Everything promises well. The jute is coming up magnificently; but the young paddy finds it difficult to keep pace with the abnormal growth of weeds.
	Kurigram ...	1.83	Weather—first half of the week cooler than usual, and showery; second half very hot and fine. Jute and <i>ass</i> rice seedlings doing well. Land is being ploughed for <i>amun</i> . Common rice selling at 15 seers a rupee.
	14 Bogra .. 24, '90	0.36	
	Sherpur ...	0.41	
	Northchilla ...	2.47	Weather—hot in day, but cool at night. The late rain has improved the condition of the standing crops. Price of rice continues stationary.
	15 Pabna .. 24, '90	1.10	
	16 Darjeeling .. 24, '90	0.80	
	17 Nilgore .. 24, '90	0.08	Weather—hot and occasionally cloudy. Jute and <i>bhadol</i> are still being sown in a few places. Prospects satisfactory. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—concluded.			
<i>Eastern Districts.</i>			
Dacca Divn.	18 Dacca May 24, '90	0.68	Weather—very hot and sometimes cloudy. <i>Amun</i> and <i>aus</i> paddy nearly sown. Jute and <i>til</i> thriving. The late rain has done much good to the standing crops. Price of common rice 14 to 16 seers per rupee.
	19 Farroedpur .. 24, '90	0.48	Weather—seasonable. State and prospects of paddy, sugarcane, <i>til</i> , and jute fair. Harvesting of <i>jali dhau</i> is still in progress. Price of common rice ranges from 14 to 16 seers per rupee.
	Goatundo ..	1.5	
	Madaripore ..	0.88	
Chittagong Divn.	20 Backergunge ..	...	Report not received.
	21 Mymensingh .. 24, '90	0.80	Weather—very hot. Prospects of crops good. Common rice selling at 12 seers 10 chittacks per rupee.
	22 Chittagong .. 27, '90	0.38	Weather—hot with passing clouds. Prospects of <i>pania aus</i> crop good.
	23 Noakhally .. 24, '90	Nil	Weather—warm and sultry. 15 annas on average of <i>aus</i> crop reported to have been sown. Reports have been received from certain stations and outposts about the damage to a small extent caused to the young plants by insects called "cheupota."
	24 Tipperah .. 24, '90	0.07	Weather—hot and bright towards close of week. Rice, jute, and <i>til</i> doing well. Prices stationary.
	25 Chittagong Hill Tracts .. 22, '90	Nil	Weather—very hot throughout the week. Sowing in <i>jums</i> continues. Sugarcane progressing. Price of common rice 13 seers 5 chittacks per rupee.
BEHAR.	Hill Tipperah ..	...	Report not received.
	26 Patna .. 24, '90	Nil	Weather—hot with high winds at night. <i>Chena</i> and sugarcane doing well. Mango ripening and being brought to market in small quantities. Prices rising.
	27 Gya .. 23, '90	Nil	Weather—hot. Prospect of sugarcane and <i>chena</i> favourable. Prices of food-grains almost stationary.
	28 Shahabad .. 24, '90	Nil	Weather—seasonable. Prospects of <i>chena</i> and sugarcane good. Prices stationary.
PATNA Divn.	29 Darbhanga .. 24, '90	1.24	East wind prevailing. Paddy, <i>mung</i> , indigo, and <i>chena</i> greatly benefited by the late rain. Lands are being prepared for <i>bhadoi</i> sowings. Prices remain stationary.
	30 Mouffarpur .. 24, '90	0.44	Showers throughout the district. Weather appears still unsettled. Rainfall has been beneficial. Cultivation of lands going on. Indigo prospects excellent. Paddy, <i>chena</i> , <i>mung</i> , and <i>khus</i> in good condition.
	Hajipur ..	0.11	
	Sitamarhi ..	1.79	
BAGURDAH Divn.	31 Saran .. 24, '90	Nil	Weather—hot and close; easterly winds. Indigo only fair. Ploughing going on.
	32 Champaran .. 24, '90	1.70	Weather—hot. Rainfall during the present and past weeks has facilitated agricultural operations. Paddy and <i>bhadoi</i> crops are being sown. <i>Chena</i> and <i>kodo</i> are growing well. Prices of food-grains almost stationary.
	Bettiah ..	0.73	
	33 Monrhyr .. 24, '90	1.50	Weather—very warm. Ploughing for <i>bhadoi</i> going on. More rain wanted.
	Jamui ..	0.14	
	34 Bhagnipur .. 24, '90	0.62	Weather—close and cloudy with easterly wind. Cultivation of <i>bhadoi</i> crops is being pushed on, and prospects are favourable owing to the late rain.
	Hanka ..	0.17	
	35 Supool ..	0.69	Weather—getting hot, but mornings and evenings cool. Sugarcane, as well as <i>bhadoi</i> , jute, and indigo, doing well. More rain wanted.
	Parman .. 24, '90	0.40	
	Kishengunge ..	0.77	
BAGURDAH Divn.	36 Arrarwah ..	1.80	Weather—generally hot and bright. A high west wind followed by a heavy shower of rain on the 23rd. Reaping of <i>boro</i> paddy nearly completed. <i>Bhadoi</i> and winter rice sowings going on. Other standing crops thriving well. Common rice selling at from 13 to 19 seers a rupee.
	Maldah .. 24, '90	0.22	
	Chanchal ..	0.48	
	Shibgunge ..	0.89	
	Gajole ..	0.60	Weather—cool; constant storms. Ploughing is going on pretty generally, but much more rain is wanted for cultivation in Deoghur, Godda, and Danks. Sugarcane has been benefited by the rain.
	37 Southal Perga .. 24, '90	0.09	
	Deoghur ..	0.34	
	Godda ..	0.63	
BAGURDAH Divn.	Jamtara ..	1.34	
	Pakoni ..	0.96	
	Bajwahat ..	Nil	

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIV.	38 Cuttack ...	...	Report not received.
	39 Poorer Khoorda May 23, '90 ...	0.64 0.46	Weather—seasonable. The late rain has done much good to the sowing of <i>sarad</i> and <i>baali</i> crops. Miscellaneous crops doing well. Price of common rice stationary.
	40 Balasore „ 24, '90	1.20	Weather—cool for the time of year. Lands are being cultivated everywhere. Number of coolies on relief-works 179.
CHOTA NAGPORE.			
<i>South-West Frontier Agency.</i>			
CHOTA NAGPORE DIV.	41 Hazaribagh May 24, '90	Nil	Weather—seasonable. Sugarcane and mango doing well. Lands are being ploughed. Rice selling at from 14 to 20 seers per rupee.
	42 Lohardugga „ 24, '90	0.46	Weather—seasonable. Ploughing and sowing of <i>gora</i> rice continue. Some damage has been caused to the mango fruit at Palamow by storm.
	Palamow (up to 21st) ...	0.77	Weather—wet and stormy: most abnormal. Paddy is being sown. Sugarcane, cotton, and <i>bandha</i> thriving. Lac is being planted, but the planting has only just commenced excepting in Shelaipahari, where 16 annas have already been planted. Price of common rice varies from 18 seers per rupee in Manarpore to 24 seers per rupee in Dhalbhum. In Chybasa it is selling at 18 seers per rupee.
	43 Singonoom May 24, '90	1.20	
	44 Manbhoom „ 24, '90	0.33	Weather—hot and cloudy. Ploughing going on freely, after the late showers. Rice selling at from 18 to 24 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 27th May, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (RETAIL) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE
HEAD-QUARTER STATION BAZAARS OF THE DISTRICTS OF BENGAL
DURING THE FORTNIGHT ENDING THE
15TH MAY 1890.

PRICES-CURRENT (retail) of Food-grains, Firewood, and Salt in the

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLAM. (Sorghum Vulgare.)					
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.			
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.			
BENGAL.																			
Western Districts.																			
1	Burdwan	13 4	16 4	13 4	...	...	...	12 0	12 12	11 10	16 6	15 2	15 6	...	...	...
2	Bankoora	15 0	16 0	14 0	20 0	20 0	18 0	17 8	17 8	15 0	20 0	19 0	17 8	...	...	...
3	Beerbhoom	16 8	18 0	14 4	...	...	...	12 12	13 8	12 0	16 12	16 8	13 8	...	...	...
4	Midnapore	13 0	14 0	10 0	15 0	15 0	...	13 8	14 0	11 0	16 0	17 0	15 8	...	...	...
5	Hooghly	13 0	13 0	13 0	...	...	...	8 0	8 0	10 0	13 0	14 0	13 0	...	...	...
	Howrah	...	...	...	...	...	...	11 4	11 4	10 0	14 0	14 8	13 8	...	...	...
Central Districts.																			
	Calcutta	13 8	13 4	12 4	17 8	17 8	17 0	8 15	8 11	6 13	13 4	13 11	12 15	19 13	21 7	16 13			
6	24-Pergunnahs	14 8	14 8	13 4	18 8	20 0	18 0	8 0	8 0	8 0	14 8	14 8	14 0	...	...	...
7	Nudda	15 0	15 0	14 15	20 0	20 0	20 0	11 6	11 14	12 0	13 5	13 5	14 2	...	...	...
8	Khoolna	...	...	...	...	...	...	13 8	12 0	10 11	16 0	15 0	13 0	...	...	...
9	Jessore	13 0	13 0	11 4	...	...	...	11 0	9 0	11 0	14 8	15 0	14 0	...	...	...
10	Moorshedabad	16 0	16 0	13 4	...	...	...	10 0	10 0	11 0	13 6	13 6	14 0	...	...	...
11	Dinapore	19 4	10 4	12 0	16 0	14 8	16 0	13 3	15 0	13 0	15 12	18 0	16 8	...	...	...
12	Rajahmudy	17 4	17 4	15 12	24 0	24 0	19 8	12 12	12 0	12 0	13 8	13 8	13 8	...	...	...
13	Rungpore	13 5	13 5	14 8	...	...	...	9 6	9 6	10 8	14 8	13 5	12 3	...	...	...
14	Bogra	13 8	13 8	13 8	...	...	...	12 0	12 0	13 8	16 8	16 8	16 8	...	...	...
15	Pabna	18 12	18 12	17 4	...	...	...	6 12	6 12	7 8	15 0	14 4	15 0	...	...	...
16	Darjeeling	9 0	9 0	10 0	10 0	10 0	6 0	5 0	6 0	6 0	12 0	12 0	11 0	...	...	...
17	Julpigoree	13 0	13 0	10 0	16 0	16 0	16 0	8 0	8 0	8 0	14 0	15 0	16 0	...	...	...
Eastern Districts.																			
18	Dasra	13 0	13 0	13 0	16 0	16 0	26 0	13 0	14 0	12 0	15 0	15 0	14 0	...	...	...
19	Furzedpore	14 0	14 0	16 0	17 0	18 0	18 0	9 0	9 0	8 0	13 0	13 0	11 0	...	...	...
20	Backergunge	...	...	...	...	...	...	12 8	12 8	10 8	13 0	14 0	12 0	...	...	...
21	Mymensingh	12 0	11 8	12 0	...	...	...	11 0	10 0	13 0	13 4	13 8	16 0	...	...	...

A In subdivisions retail price of salt per rupee are:—Culna 10 seers, Cutwa 10 seers 6 chittacks, and Ranagunge 10½ seers.

A1 At Kumtore Haut retail price of salt 9 seers per rupee.

B In subdivisions retail price of salt per rupee are:—Contal 8 seers, Tumlook 8 seers, and Ghatal 10½ seers.

C In subdivisions retail price of salt per rupee are:—Serampore 10½ seers and Johanna 10 seers.

D In subdivisions retail price of salt per rupee are:—Baran 9 seers, Baranhat 9 seers, Diamond Harbour (Kulphat) 8 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.

E In subdivisions retail price of salt per rupee are:—Koonhten 10 seers, Meherpore 9 seers, Choudanga 9 seers, and Hanachal 9 seers 2 chittacks.

F At Baschal retail price of salt 8 seers per rupee.

G In subdivisions retail price of salt per rupee are:—Jhenida 9 seers, Magura 9½ seers, Nazail 9½ seers, and Hongong 10 seers.

H In the Lalbagh, Jungpore, and Kauch subdivisions retail price of salt 10 seers per rupee.

KARSHI OR KARUN, ITALIAN MILLET. (Sole in 10 acres.)			GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (Clear cultivation.)		
Present return.	Next preceding re- turn.	Corresponding re- turn of last year.	Present return.	Next preceding re- turn.	Corresponding re- turn of last year.

R.	Ch.	R.	Ch.	R.	Ch.	R.	Ch.	R.	Ch.	R.	Ch.
...	18	0	19	0	18	0		
...	17	8	18	0	16	0		
...	18	0	18	0	18	0		
...	15	0	15	0	14	0		
...	16	0	16	0	16	0		
...	17	12	17	12	18	0		

9	4	10	0	19	13	16	10	16	12	15	12
6	8	6	0	12	0	17	12	19	0	17	0
...	...	...	...	...	...	20	0	20	8	19	0
...	...	...	...	...	...	14	8	18	0	16	0
...	...	...	...	...	...	16	0	16	0	20	0
...	...	...	...	...	...	22	0	22	0	18	4
...	...	...	...	...	...	16	0	16	0	16	0
...	...	...	...	...	...	19	8	19	8	19	8
...	...	...	...	...	...	13	5	12	4	13	0
...	...	...	...	...	...	15	0	15	0	16	8
...	...	...	...	...	...	17	8	18	12	18	0
...	...	...	...	...	...	11	0	10	0	9	0
...	...	...	...	...	...	12	0	13	0	19	0

...	...	...	...	14	0	14	0	14	0
...	...	...	...	15	0	15	0	20	0
...	...	...	...	14	8	13	12	16	0
...	...	...	...	16	8	13	12	13	0

Head-quarter Station Bazars of the Districts of Bengal on the 15th May 1890.

												WHOLESALE PRICES PER MAUND OF 40 SEERS.						DISTRICTS.
INDIAN-CORN OR MAIZE (Zea Mays.)			ARHAR OR TUR, CAJAN P.K. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.						
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
3. Ch.	8. Ch.	8. Ch.	8. Ch.	8. Ch.	8. Ch.	8. Ch.	8. Ch.	8. Ch.	8. Ch.	8. Ch.	8. Ch.	8. Ch.	8. Ch.	8. Ch.	8. Ch.	8. Ch.	8. Ch.	
...	
...	18 0	20 0	19 0	100 0	100 0	107 0	10 0	10 0	9 14	3 11 0	3 11 3	3 11 6	Burdwan.			
29 0	30 0	21 0	21 0	21 4	18 0	280 0	280 0	280 0	10 0	10 0	10 0	3 15 0	3 15 0	3 15 0	Bankura.			
...	13 8	13 8	12 0	160 0	160 0	160 0	10 8	10 8	10 0	3 10 0	3 10 0	3 14 0	Barbhoon.			
...	13 0	14 0	14 0	160 0	160 0	160 0	10 0	10 2	10 4	3 14 6	3 14 0	3 14 0	Midnapore.			
...	11 0	11 0	13 0	120 0	120 0	120 0	9 0	9 0	9 0	3 11 6	3 11 6	3 11 6	Hooghly.			
...	13 0	13 4	13 0	100 0	100 0	100 0	10 0	10 0	10 8	3 11 6	3 12 0	3 10 6	Howrah.			
Central Districts.																		
16 15	18 2	...	16 7	16 11	16 4	99 10	100 0	100 0	10 6	10 5	10 8	3 9 3	3 8 9	3 9 3	Calcutta.			
...	17 0	17 0	17 0	100 0	100 0	100 0	10 0	10 4	10 8	3 10 0	3 9 6	3 8 9	24-Pergunnahs.			
...	19 0	19 0	16 0	...	...	...	9 18	9 18	9 2	3 14 0	3 14 0	3 14 0	Nuddoa.		
...	160 0	160 0	160 0	9 8	9 8	9 0	4 4 0	4 4 0	4 0 0	Khoolna.			
...	18 0	15 0	20 0	160 0	160 0	160 0	9 2	9 2	9 2	4 0 0	4 0 0	4 0 0	Jessore.			
...	16 0	16 0	18 12	200 0	200 0	200 0	11 0	10 12	9 0	3 12 0	3 12 0	4 0 0	Moorshedabad.			
...	15 12	15 8	12 0	180 0	160 0	160 0	9 8	9 8	9 8	4 0 0	4 0 0	3 15 0	Dinapore.			
...	18 2	18 8	19 1	240 0	240 0	240 0	9 0	9 0	8 10	4 2 8	4 2 8	4 5 4	Rajahmbye.			
...	12 4	10 10	13 0	100 0	100 0	120 0	9 6	9 6	9 6	4 8 0	4 8 0	4 4 0	Rungpore.			
...	90 0	90 0	90 0	9 0	9 0	9 0	4 4 0	4 4 0	4 2 8	Bogra.			
...	17 8	18 12	18 12	200 0	200 0	200 0	8 11 1	8 11 1	9 2	4 0 0	4 0 0	4 1 0	Pubna.			
13 0	13 0	16 0	8 0	0 0	...	120 0	120 0	120 0	8 0	7 0	7 0	5 0 0	5 0 0	5 0 0	Darjeeling.			
...	12 0	12 0	10 0	128 0	128 0	128 0	9 0	9 0	9 0	4 3 0	4 2 0	4 4 0	Julpigoree.			
Eastern Districts.																		
...	18 0	15 0	16 0	160 0	160 0	160 0	9 8	9 8	10 0	4 2 0	4 2 0	3 15 0	Dacca.			
15 0	15 0	...	10 0	11 0	10 0	120 0	120 0	120 0	8 8	8 8	9 0	4 12 0	4 12 0	4 0 0	Furroadpore.			
...	Khesari husked.			120 0	120 0	120 0	10 0	10 0	9 9	4 0 0	3 15 0	4 3 2	Backergunge.			
...	9 0	10 0	16 0	...	...	...	9 12	9 8	10 0	4 0 0	4 1 6	3 15 0	Mymensingh.		

- I At Thakurgunge retail price of salt 8 seers per rupee.
 J In subdivisions retail prices of salt per rupee are:—Natore 9 seers and Nowgong 9 seers 9 chittacks.
 K In subdivisions retail prices of salt per rupee are:—Gaibanda 8 seers, Nilphamari 9 seers, and Kurigram 8 seers.
 L At Sonmugunge retail price of salt 9 seers per rupee.
 M At Sitabdi wholesale price of salt Rs. 4-4 per maund.
 N In the Alipore subdivision (at Mulla's) retail price of salt 10 seers per rupee.
 O In subdivisions retail prices of salt per rupee are:—Manikgunge 8 seers, Moogyahgunge 8 seers 14 chittacks, and Narain gunge 10 seers.
 P In subdivisions retail prices of salt per rupee are:—Patuakhali 9 seers, Porazpore 9 seers, and Bhola 8 seers.
 Q Retail price of salt in the Kishoregunge, Shorapore, and Netrokona subdivisions 8 seers per rupee and in the Jamalpore subdivision 10 seers per rupee.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN														
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLU. (Sorghum Vulgare.)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
<i>Eastern Districts—concluded.</i>																
22	Chittagong ...	11 0	11 0	11 0	...	...	...	12 0	12 8	10 0	15 0	16 0	12 0	...	...	...
23	Noakholly ...	...	...	...	...	...	...	14 0	14 0	12 0	15 0	16 0	13 0	...	...	...
24	Tipperah ...	14 9	14 9	12 0	...	...	...	10 0	10 0	13 0	13 11	13 5	14 0	...	...	...
25	Chittagong Hill Tracts ...	...	...	...	...	...	...	12 0	12 0	10 0	13 5	13 5	11 6	...	...	...
	Hill Tipperah ...	6 0	6 0	6 0	...	...	...	8 0	8 0	8 0	13 0	14 0	15 0	...	...	...
BEHAR.																
26	Patna ...	17 0	17 8	...	23 0	24 8	22 0	10 0	10 0	10 0	16 14	16 14	13 8	18 0	18 0	...
		16 0	15 8	15 8	23 5	24 0	23 0	11 8	11 8	8 8	16 0	16 0	12 12	...	...	...
27	Gya ...	15 8	17 8	16 8	23 5	24 0	23 0	11 8	11 8	8 8	16 0	16 0	12 12	...	...	...
28	Shahabad ...	15 0	15 0	14 8	22 0	22 0	20 0	8 0	8 0	8 8	14 0	14 0	13 8	...	...	...
29	Darbhanga ...	14 4	16 8	13 11	20 14	26 0	19 6	9 11	11 0	9 2	15 6	16 0	12 9	...	...	...
30	Munsterpore ...	16 0	16 0	12 0	20 0	25 0	16 0	9 0	9 0	9 0	15 0	15 0	11 0	...	...	...
31	Barna ...	15 8	15 8	13 8	21 4	21 8	19 8	8 8	8 8	8 8	14 4	13 8	12 2	...	...	...
32	Chumpara ...	16 12	16 0	12 8	25 0	26 0	18 0	8 8	8 0	7 0	16 4	16 0	10 0	...	...	...
33	Monghyr ...	17 13	17 13	16 4	23 1	23 1	21 0	15 12	15 12	10 8	17 13	17 13	11 9	...	...	...
34	Bhagalpore ...	17 11	17 11	15 2	23 11	24 0	18 15	10 1	10 1	11 9	13 4	13 10	13 4	...	...	...
								Old. 13 14	Old. 13 14	Now. 16 0	Now. 16 0	Now. 17 0	...	...	...	...
35	Purneah ...	18 0	18 0	20 0	...	...	...	16 0	17 0	16 0	18 0	18 0	17 0	...	...	...
36	Maldah ...	18 0	18 0	15 0	...	...	...	11 0	10 0	10 0	14 0	13 0	13 13	...	...	...
37	Southal Pargha ...	15 0	15 0	12 0	...	...	...	13 0	13 0	12 0	16 0	16 0	14 0	...	...	...
ORISSA.																
38	Cuttack ...	10 8	11 13	10 8	...	...	...	10 8	10 8	10 8	17 1	18 6	14 7	...	...	...
39	Pooree ...	11 13	12 2	11 13	...	...	...	17 1	17 1	11 13	21 0	21 0	15 12	...	...	...
40	Balasore ...	15 0	15 0	17 0	18 0	18 0	18 0	13 0	13 0	12 0	13 8	19 0	17 0	...	...	...
CHOTA NAGPORE																
<i>South-West Frontier Agency.</i>																
41	Hazaribagh ...	14 0	13 8	12 4	18 0	18 0	17 0	9 0	10 0	8 0	16 0	17 0	13 8	...	...	...
42	Lohardugga ...	8 8	8 8	12 0	24 0	18 0	14 0	14 0	14 0	12 0	16 8	16 0	13 8	...	...	...
		13 4	14 0	11 0	10 0	10 0	16 0	16 0	16 0	12 0	20 0	20 0	16 0	...	...	...
43	Bagbhoom ...	10 0	10 0	11 0	10 0	10 0	16 0	16 0	16 0	12 0	20 0	20 0	16 0	...	...	...
44	Manbhoom ...	13 5	13 0	12 0	20 0	20 0	...	14 0	14 0	13 0	23 0	23 0	19 0	...	...	...

* Price of common rice at Jajpore 23 seers 5 chittacks and Khandapara 23 seers 10 chittacks per rupee.

B At Cox's Bazar retail price of salt 8 seers per rupee.

S At Feni Haut retail price of salt 8 seers per rupee.

T In subdivisions retail prices of salt per rupee are:—Bazar 10 seers, Bameram 9½ seers, and Bhambua 9 seers.

U In subdivisions retail prices of salt per rupee are:—Madhubani 10 seers and Hamantipore 11 seers.

U1 In subdivisions retail prices of salt per rupee are:—Hajipore 9½ seers and Bitamari 10 seers.

<p>A OR COMBU. <i>Stadium typho-</i> <i>ideum.</i>)</p>	<p>MARUA OR RAGI. <i>(Eleusine Coracana.)</i></p>
---	--

Next preceding re- turn.	Corresponding re- turn of last year.	Present return.	Next preceding re- turn.	Corresponding re- turn of last year.
-----------------------------	---	-----------------	-----------------------------	---

Ch. 8. Ch. 8. Ch. 8. Ch. 8. Ch. 8. Ch. 8. Ch. 8. Ch. 8.

23	0	23	0
23	1	24	0
23	0	22	0
23	0	20	0

100	27	0	21	0	20	9
100	26	0	20	0	25	0
100	25	0	19	0	24	0
100	24	0	18	0	23	0
100	23	0	17	0	22	0
100	22	0	16	0	21	0
100	21	0	15	0	20	0
100	20	0	14	0	19	0
100	19	0	13	0	18	0
100	18	0	12	0	17	0
100	17	0	11	0	16	0
100	16	0	10	0	15	0
100	15	0	9	0	14	0
100	14	0	8	0	13	0
100	13	0	7	0	12	0
100	12	0	6	0	11	0
100	11	0	5	0	10	0
100	10	0	4	0	9	0
100	9	0	3	0	8	0
100	8	0	2	0	7	0
100	7	0	1	0	6	0
100	6	0	0	0	5	0
100	5	0	0	0	4	0
100	4	0	0	0	3	0
100	3	0	0	0	2	0
100	2	0	0	0	1	0
100	1	0	0	0	0	0
100	0	0	0	0	0	0

KANGNI OR KAKUN, ITALIAN MILLET. (<i>Setaria italica</i> .)	GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (<i>Cicer arisianum</i> .)
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Present return.	Next preceding re- turn.	Corresponding re- turn of last year.	Present return.	Next preceding re- turn.	Corresponding re- turn of last year.
-----------------	-----------------------------	---	-----------------	-----------------------------	---

S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.
						13	0	12	4	12	0
						12	0	12	0	12	0
						13	5	13	5	16	0
						13	0	13	0	10	0

1	0	13	0	12	0	21	0	23	0	21	
15	0	15	0	11	0	19	8	20	0	19	0
						22	0	23	0	20	0
						20	14	20	0	19	0
						21	0	20	0	19	0
16	0	16	0	11	0	20	8	20	12	19	4
						24	8	23	0	16	0
						12	9	23	1	23	1
						21	7	21	7	18	4
						23	0	22	0	20	0
						21	0	22	0	23	8
						17	0	17	0	17	0

						14	7	15	12	19	11
						13	2	14	7	15	12
						14	0	14	0	14	0

						16	0	16	0	14	0
						13	4	12	12	12	0
						10	0	10	0	10	0
						17	0	17	0	17	0

Station Bagars of the Districts of Bengal on the 15th May 1890—(concluded).

														WHOLESALE PRICES PER MAUND OF 40 SEERS.						DISTRICTS.
INDIAN-CORN OR MAIZE. (Zea Mays.)			ANJHAR OR THUR. GADJAN PRA. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.								
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.						
Eastern Districts—concluded.																				
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.						
...	...	...	...	...	...	110	0 110	0 100	0 12	8	10	0	9	0	
										</										

V At Bottish retail price of salt 9½ seers per rupee.

W In subdivisions retail prices of salt per rupee are:—Begusarai 9½ seers and Jargui 9 seers.

X At Kishengunge retail price of salt 8 seers per rupee.

Y At Bhadrak retail price of salt 8 seers per rupee.

Z At Govindpore retail price of salt 9 seers per rupee.

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PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARKS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 11 6	2 12 3	2 13 7	2 0 11	2 0 8	2 1 10	4 3 6	4 5 2	4 4 2	2 12 4	2 10 8	2 13 4
2	Seraingunge ...	2 6 0	2 8 0	2 5 0	...	...	...	5 0 0	4 14 0	3 12 0	2 14 0	3 0 0	2 11 0
3	Dacca ...	3 0 0	3 0 0	3 0 0	2 7 0	2 7 0	1 8 0	3 0 0	2 13 0	3 4 0	2 10 0	2 10 0	2 12 0
4	Naraingunge ...	...	...	...	...	...	...	3 0 0	3 2 0	3 0 0	2 14 0	3 0 0	2 12 0
5	Chittagong ...	3 8 0	3 8 0	3 9 0	...	...	...	3 4 0	3 0 0	4 0 0	2 10 0	2 8 0	3 4 0
6	Patna ...	2 5 0 2 9 0	2 4 0 2 8 0	...	1 11 0	1 9 0	1 12 6	3 15 0	3 15 0	3 14 0	2 4 0	2 5 0	2 15 0
7	Bahore ...	2 8 0	2 8 0	2 4 0	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 4 0	2 0 0	2 0 0	2 1 3
8	Poores ...	...	...	...	...	...	...	...	...	...	1 14 0	1 14 0	2 4 0
9	Cuttack ...	3 10 0	3 4 0	3 10 0	...	...	...	3 10 0	3 10 0	3 10 0	2 2 0	3 2 0	2 10 0

CALCUTTA,
The 27th May, 1890.

OF 40 SEERS.

MARDA OR RAOL (Eleusine Coracana.)			KANGNI OR KAKUN, ITALIAN MILLET. (Setaria italica.)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R.A.P.	R.A.P.	R.A.P.	R.A.P.	R.A.P.	R.A.P.
...	3 10 03	3 01 12	3
...
...
...
...
1 8 0	1 6 0	...	2 0 02	2 03 0 0	...
...
...
...

PRICES PER MAUND					
JOWAR OR CHOLU. (<i>Sorghum Vulgare</i> .)			BAJRA OR CUMBU. (<i>Pennisetum typhoides</i> .)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R.A.P.	R.A.P.	R.A.P.	R.A.P.	R.A.P.	R.A.P.
1 13 7 1 10 6 2	1 8 2	2 12	3 6 2	12 8	
...
...
...
...
2 4 0 2 2 0
...
...
...

the undermentioned *Marts* of Bengal on the 15th May, 1890.

GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (<i>Cicer Aristicum</i> .)			INDIAN-CORN OR MAIZE. (<i>Zea Mays</i> .)			ARHAR OR TUR, CADJAN PEA. (<i>Cajanus indicus</i> .)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
2 2 3	2 1 6	2 4 9	2 2 4	1 15 6	...	2 3 5	2 2 2	2 3 7	0 5 6	0 5 6	0 5 6	3 9 3	3 9 3	3 9 3	Calcutta.
8 0	2 9 0	3 2 0	...	...	...	...	...	...	...	...	...	3 14 0	3 14 0	3 13 0	Serajgunge.
2 12 0	2 12 0	2 12 0	...	...	...	3 0 0	3 0 0	2 6 0	0 4 0	0 4 0	0 4 0	4 2 0	4 2 0	3 15 0	Dacca.
3 10 0	3 2 0	3 0 0	...	...	...	3 8 0	3 0 0	3 2 0	0 8 0	0 8 0	0 10 0	3 12 0	3 12 0	3 12 0	Naraingunge.
3 0 0	3 2 0	3 2 0	...	...	...	...	...	...	0 5 4	0 5 4	0 7 0	3 12 0	3 12 0	4 0 0	Chittagong.
1 13 6	1 11 0	1 14 0	...	...	...	1 12 6	1 11 0	1 12 6	0 5 0	0 5 0	0 5 0	...	3 14 0	3 12 3	Patna.
2 12 0	2 12 0	2 12 0	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	3 15 0	Bansore.
...	3 8 0	3 6 0	3 8 0	Pooree.
2 10 0	2 5 0	2 0 0	2 2 0	2 0 0	2 0 0	0 8 0	0 8 0	0 8 0	4 7 0	4 7 0	4 7 0	Cuttack.

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Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.	DISTRICT.	Representative station.	STATION OBSERVATIONS.												
			AIR PRESSURE.			WIND.		TEMPERATURE.							
			Mean barometric height, S.A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest temp. week.	Date.	Lowest temp. week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.
ORISSA.	Pooree	Pooree	29.720	29.741	—	SW	37.0	90.7	20-22 May	78.1	17th May	80.8	81.0	80.4	—
	Gopalpore	Gopalpore	29.715	29.737	+0.020	Southerly	42.5	82.2	20-23 ..	70.8	21st ..	82.7	79.7	81.2	+1.0
	Paise Point	Paise Point	29.720	29.741	+0.020	South- Westerly	31.0	91.3	22nd ..	72.1	19th ..	80.7	78.0	84.4	+0.8
	Cuttack	Cuttack	29.680	29.740	+0.060	SW	36	100.9	21st ..	73.8	17th ..	102.7	79.6	81.3	+0.2
SOUTH-WEST BENGAL.	Balasore	Balasore	29.681	29.739	+0.058	S	310.7	86.4	21st ..	73.8	21st ..	83.0	75.8	84.3	+0.3
	South-West Midnapore	Saugor Island	29.710	29.743	+0.033	SW	384	94.2	19th ..	70.0	19th ..	92.8	77.8	85.1	+2.0
	South 24-Pargunnahs	Midnapore	29.592	29.742	+0.150	S	310.7	90.3	21st ..	68.3	19th ..	93.6	78.0	85.6	+3.0
	Midnapore	Midnapore	29.592	29.742	+0.150	S	310.7	90.3	21st ..	68.3	19th ..	93.6	78.0	85.6	+3.0
SOUTH-WEST BENGAL.	24-Pargunnahs	Calcutta	29.730	29.762	+0.031	SSW	123	90.8	21st ..	70.7	22nd ..	93.6	78.8	84.8	+2.1
	Howrah	Howrah	29.635	29.735	+0.101	E & S	93.8	100.7	21st ..	72.4	22nd ..	96.9	78.8	86.8	+1.6
	Hooghly	Hooghly	29.624	29.725	+0.101	E	120.3	102.1	21st ..	67.6	22nd ..	100.7	78.1	88.9	—
	Burdwan	Burdwan	29.635	29.735	+0.101	E & S	93.8	100.7	21st ..	72.4	22nd ..	96.9	78.8	86.8	+1.6
SOUTH-WEST BENGAL.	Bankura	Bankura	29.624	29.725	+0.101	E	120.3	102.1	21st ..	67.6	22nd ..	100.7	78.1	88.9	—
	Barhampur	Barhampur	29.619	29.753	+0.134	RE	100.7	102.0	19th & 21st May	73.9	19th ..	98.0	77.0	87.8	+3.4
	West Burdwan	Barhampur	29.619	29.753	+0.134	RE	100.7	102.0	19th & 21st May	73.9	19th ..	98.0	77.0	87.8	+3.4
	Mooreabad	Barhampur	29.619	29.753	+0.134	RE	100.7	102.0	19th & 21st May	73.9	19th ..	98.0	77.0	87.8	+3.4
SOUTH-WEST BENGAL.	Nuddea	Krishnagur	29.711	29.729	+0.018	ESE	142.5	90.3	20th, 21st May	70.3	22nd ..	93.3	78.0	88.0	+2.9
	Jessore	Jessore	29.731	29.765	+0.034	SE	98.8	90.8	20th, 21st May	74.4	17th, 22nd May	93.8	78.4	84.7	+2.1
	Khoulna	Jessore	29.731	29.765	+0.034	SE	98.8	90.8	20th, 21st May	74.4	17th, 22nd May	93.8	78.4	84.7	+2.1
	Chittagong	Chittagong	29.703	29.793	+0.090	SE	73.1	94.2	22nd ..	74.0	17th ..	99.4	77.1	83.7	+0.8
SOUTH-WEST BENGAL.	Chittagong Hill Tracts	Demagiri	—	—	—	—	—	Observations not received.							
	Barhampur	Barhampur	29.728	29.770	+0.042	Calm	60.8	93.8	22nd, 23rd May	73.9	17th ..	90.9	77.1	84.0	+1.3
	Noakhali	Noakhali	29.753	29.786	+0.033	SE	93.0	92.0	22nd, 23rd May	71.8	17th ..	88.8	76.7	82.6	+0.6
	Farrakka	Farrakka	29.750	29.790	+0.040	Calm & SE	70.9	98.0	20th, 21st May	72.9	21st ..	98.7	78.8	82.3	+1.7
SOUTH-WEST BENGAL.	Dacca	Dacca	29.756	29.775	+0.019	ESE	92.8	92.1	20th, 21st May	70.7	17th ..	98.1	74.3	88.2	+2.6
	Comilla	Comilla	29.750	29.786	+0.036	SE	91.6	92.5	22nd ..	71.3	17th ..	90.5	78.0	83.8	+1.1
	Mymensingh	Mymensingh	29.738	29.707	+0.031	ENE	80.5	90.7	22nd ..	69.6	17th ..	87.2	76.7	81.0	+0.5
	Bogra	Bogra	—	—	—	—	—	Observations incomplete.							
SOUTH-WEST BENGAL.	Patna	Patna	29.719	29.760	+0.041	E	232.4	91.8	22nd ..	70.3	20th ..	89.0	74.2	81.6	+2.3
	Rajshahi	Rajshahi	29.695	29.766	+0.071	SE & SSE	80.8	93.8	23rd ..	70.4	21st ..	90.3	74.7	82.0	+3.0
	Maldah	Maldah	29.683	29.704	+0.021	E	67.7	97.7	23rd ..	71.5	17th ..	92.0	74.0	83.8	—
	Dinapore	Dinapore	29.640	29.770	+0.130	E	41.4	92.1	23rd ..	69.0	21st ..	88.2	74.1	81.2	+2.7
SOUTH-WEST BENGAL.	Rongpore	Rongpore	29.676	29.796	+0.120	E	56.1	91.3	22nd ..	68.2	17th ..	88.8	73.8	80.4	+0.7
	Jalpaiguri	Jalpaiguri	29.503	29.703	+0.200	?	289.2	91.4	22nd, 23rd May	66.1	17th ..	86.3	78.9	79.0	+0.2
	Cooch Behar	Jalpaiguri	29.503	29.703	+0.200	?	289.2	91.4	22nd, 23rd May	66.1	17th ..	86.3	78.9	79.0	+0.2
	Darjeeling Hill Tracts	Darjeeling	22.328	—	—	ENE	80.9	93.8	23rd ..	69.1	22nd ..	89.1	81.0	85.1	+3.7
SOUTH-WEST BENGAL.	Purneah	Purneah	29.646	29.777	+0.131	NE, ENE	91.0	96.7	23rd ..	70.9	17th, 19th May	91.1	74.0	82.6	+2.8
	Muzaffarpore	Muzaffarpore	29.550	29.731	+0.181	ESE	204.5	95.8	22nd ..	67.7	17th ..	91.8	74.0	82.8	—
	Darbhanga	Darbhanga	29.591	29.759	+0.168	ESE	103.0	97.4	23rd ..	—	—	93.0	—	—	—
	Chumpran	Mothari	29.635	29.764	+0.129	ENE	185.9	90.3	23rd ..	68.6	19th ..	93.2	73.4	83.3	+3.1
SOUTH-WEST BENGAL.	Saran	Chupra	29.520	29.720	+0.200	E	194.6	100.3	21st ..	71.2	19th ..	97.2	76.0	86.9	+2.3
	Shahabad	Shahabad	29.534	29.705	+0.171	SEW	144.6	107.4	21, 23 ..	78.0	17th ..	104.5	80.9	92.7	+0.2
	Gya	Gya	29.519	29.714	+0.195	E, ENE, E & ENE	107.5	104.9	22nd ..	76.8	19th ..	101.3	79.0	86.1	+1.2
	Patna	Patna	29.545	29.716	+0.171	E	113.3	100.6	23rd ..	68.3	17th ..	103.2	81.8	92.3	+0.1
SOUTH-WEST BENGAL.	South Bhagalpore	South Bhagalpore	29.548	29.726	+0.178	E	108.3	102.0	23rd ..	71.7	19th ..	98.4	78.1	86.7	+4.0
	Monghyr	Monghyr	29.578	29.741	+0.163	E	108.3	98.3	23rd ..	73.0	19th ..	98.0	78.8	84.3	+3.1
	South 24-Pargunnahs	Dumka	29.541	29.737	+0.196	SE	179.0	90.7	23rd ..	76.3	22nd ..	96.3	76.8	86.0	+3.1
	Hazaribagh	Hazaribagh	27.735	29.718	+0.011	South- Westerly	231.4	105.0	22nd ..	71.3	17th ..	97.0	74.9	80.3	+1.3
SOUTH-WEST BENGAL.	Lehardnaga	Lehardnaga	27.680	29.726	+0.046	SW, Calm	114.9	100.0	22nd, 23rd May	70.4	17th ..	95.4	78.0	86.0	+2.7
	Manbhoi	Manbhoi	—	—	—	—	—	—	—	—	—	—	—	—	—
	Singbhoi	Singbhoi	28.168	29.722	+0.554	Calm	68.2	104.3	21st ..	73.7	17th ..	98.3	77.8	87.8	+4.0
	Amam	Amam	29.682	29.719	+0.037	Calm & SW	—	98.6	22nd ..	88.4	17th ..	99.7	78.0	81.4	+0.8
SOUTH-WEST BENGAL.	Dhubri	Dhubri	29.674	29.736	+0.062	E	108.3	90.3	22nd ..	68.6	17th ..	88.1	75.4	79.7	+1.1
	Michar	Michar	29.702	29.689	+0.013	Calm	—	88.5	22nd ..	68.5	17th ..	88.6	78.4	81.7	+0.3

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the readings during the same period for the years 1871-1880. The humidity of the atmosphere is expressed as percentage, saturated air being represented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The normal means of the monthly means or average of the rainfall in that district determined from the returns sent in by the subdivisional stations for the period in question during the same period. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 23rd of May 1890.

DISTRICT OBSERVATIONS.																	
No.	Average humidity at 5 A.M.	Average cloud amount at 5 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.						Representative station.	District.	METEOROLOGICAL DIVISION.			
				Mean for district.	Normal mean.	Since 1st of month.			Since 15th May 1890.								
						Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.						
84	87	0.64	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Pooroo Gopalpore ...	Pooroo ...	ORISSA.			
85	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	False Point ...	False Point ...				
86	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Outtack ...	Outtack ...				
87	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Balaore ...	Balaore ...				
88	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	South-West Widdapore ...	South-West Widdapore ...	SOUTH-WEST BENGAL.			
89	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	South 24-Pergunnahs ...	South 24-Pergunnahs ...				
90	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Midnapore ...	Midnapore ...				
91	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	24-Pergunnahs ...	24-Pergunnahs ...				
92	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Howrah ...	Howrah ...	SOUTH-WEST BENGAL.			
93	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Hooghly ...	Hooghly ...				
94	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Burdwan ...	Burdwan ...				
95	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Bankura ...	Bankura ...				
96	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Baranagar ...	Baranagar ...	SOUTH-WEST BENGAL.			
97	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Neerbhoom ...	Neerbhoom ...				
98	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	West Burdwan ...	West Burdwan ...				
99	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Moorshedabad ...	Moorshedabad ...				
100	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Krishnagar ...	Krishnagar ...	SOUTH-WEST BENGAL.			
101	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Nadua ...	Nadua ...				
102	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Jessore ...	Jessore ...				
103	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Khoolna ...	Khoolna ...				
104	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Chittagong ...	Chittagong ...	SOUTH-WEST BENGAL.			
105	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Chittagong Hill Tracts ...	Chittagong Hill Tracts ...				
106	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Dumagiri ...	Dumagiri ...				
107	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Bachergunge ...	Bachergunge ...				
108	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Noakhally ...	Noakhally ...	SOUTH-WEST BENGAL.			
109	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Farrakka ...	Farrakka ...				
110	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Dacca ...	Dacca ...				
111	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Tipperah ...	Tipperah ...				
112	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Mymensingh ...	Mymensingh ...	SOUTH-WEST BENGAL.			
113	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Bogra ...	Bogra ...				
114	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Serajunge ...	Serajunge ...				
115	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Rajshahi ...	Rajshahi ...				
116	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Maldah ...	Maldah ...	SOUTH-WEST BENGAL.			
117	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Dinapore ...	Dinapore ...				
118	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Rangpore ...	Rangpore ...				
119	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Jalpaiguri ...	Jalpaiguri ...				
120	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Darjeeling ...	Darjeeling ...	SOUTH-WEST BENGAL.			
121	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Darjeeling Hill Tracts ...	Darjeeling Hill Tracts ...				
122	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Purneah ...	Purneah ...				
123	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	North Bhagulpore ...	North Bhagulpore ...				
124	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Mosufferpore ...	Mosufferpore ...	SOUTH-WEST BENGAL.			
125	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Durbhunga ...	Durbhunga ...				
126	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Mothar ...	Mothar ...				
127	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Chupra ...	Chupra ...				
128	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Shahabad ...	Shahabad ...	SOUTH-WEST BENGAL.			
129	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Gya ...	Gya ...				
130	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Patna ...	Patna ...				
131	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	South Bhagulpore ...	South Bhagulpore ...				
132	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	South Bhagulpore ...	South Bhagulpore ...	SOUTH-WEST BENGAL.			
133	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Hasaribagh ...	Hasaribagh ...				
134	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Lehardaga ...	Lehardaga ...				
135	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Manbhoom ...	Manbhoom ...				
136	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Singbloom ...	Singbloom ...	SOUTH-WEST BENGAL.			
137	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Assam ...	Assam ...				
138	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Assam ...	Assam ...				
139	85	0.72	0.60	0.60	1.75	-1.00	0.87	0.66	+0.21	1.0	17	Assam ...	Assam ...				

17 years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional stations.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain- fall from 1st of month.	Average total rain- fall from 1st of month.	Total rain- fall from 10th May 1890.	Average rainfall from 10th May to date.
			Saturday, 17th May.	Sunday, 18th May.	Monday, 19th May.	Tuesday, 20th May.	Wednesday, 21st May.	Thursday, 22nd May.	Friday, 23rd May.	Number of rainy days.	Rainfall inches.				
OMHA	Pooree	Pooree	0.90						1	0.90	1.44	1.74	1.44	0.92	
		Khurdah	0.46						1	1.93	1.93	1.74	1.93	1.01	
		Hampur		0.23					1	0.23	0.23	1.32	0.23	0.14	
		False Point			1.17				1	1.17	1.39	2.35	1.39	0.91	
		Safarpur													
	Cuttack	Jagatsinghpore		0.30								2.06		0.30	
		Cuttack	1.62		0.23		0.02		0.20	2	0.22	0.23	2.34	0.22	
		Kendrapara						0.70		2	1.50	3.33	3.21	0.73	
		Jajpore		0.30			1.71		2.00	2	4.15	5.00	5.23	0.78	
		Dharmasala													
	Balasore	Chandbali	0.64	0.23	0.26			0.21	0.37	5	1.13	3.11	3.34	0.70	
		Boudhruck		0.23	0.23		0.80	0.30	0.10	5	1.50	2.07	2.54	0.56	
		Sorab			0.70		0.20	0.30		4	2.00	3.00	3.34	0.57	
		Balasore			0.05		0.54		0.61	4	1.20	2.00	3.10	0.57	
		Jellapore			1.50								2.52	0.57	
SOUTH-WEST SEASAL.	Midnapore	Contal			1.00		3.19	2.13	3	6.40	6.40	5.35	6.00	0.82	
		Saugor Island			2.00		0.05	1.68		3	3.70	4.40	4.40	1.00	
		Tamluk	0.70		1.70			2.60		3	5.00	6.50	6.50	0.73	
		Midnapore	0.52		1.00					3	2.43	4.04	3.64	0.70	
		Ghatat			0.20		0.13	0.49	1.05	3	0.73	2.02	3.37	0.87	
	24-Pergunnahs	Kubnashy			0.58					3	0.73	4.05	4.30	0.87	
		Garbatta			0.16		0.54	0.00		3	0.79	1.34	1.34	0.87	
		Diamond Har- bour	0.08		0.70		1.25	1.38		4	3.33	6.14	5.03	0.70	
		Canning Town	0.08		0.21					2	0.21	1.23	0.90	0.70	
		Alipore Jail	0.02				0.54	1.43		2	1.97	3.29	3.74	0.70	
	Howrah	Barrackpore			0.10		0.01	1.00		3	1.11	3.42	3.42	0.70	
		Dum-Dum	0.24	0.28	0.05		0.19	0.04		5	1.09	5.54	4.01	0.71	
		Barnett			1.04			0.70		2	7.00	3.02	4.85	1.15	
		Busserhat			1.47			0.47		2	1.94	6.20	4.33	1.40	
		Howrah	0.27		0.01		0.55	1.03		4	1.86	2.39	3.79	0.91	
Hooghly	Moharaka (Colobersah)				0.09	0.50			2	1.19	2.19	2.19	0.92		
	Serampore			0.06			1.10		2	1.16	2.63	3.37	0.84		
	Hooghly	0.50		1.46			0.72		2	2.68	5.30	4.14	0.97		
	Jehanabad	0.06		1.47		0.13	0.04		4	2.30	2.53	3.48	0.97		
	Bardwan														
Burdwan	Quina	0.07				0.55	1.08		5	1.53	1.94	3.49	0.76		
	Burdwan	0.13		0.19		0.02	1.42		2	1.55	1.87	3.15	0.70		
	Outwa				0.30	1.33			2	1.63	2.04	3.43	0.80		
	Ranogung			0.77			0.05		1	0.77	0.77				

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 23rd of May 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 1st of May 1890.	Average rainfall from 1st of May to date.
			Saturday, 17th May.	Sunday, 18th May.	Monday, 19th May.	Tuesday, 20th May.	Wednesday, 21st May.	Thursday, 22nd May.	Friday, 23rd May.	Number of rainy days.	of Rainfall week.				
NORTH-BENGAL.	Noakhally ...	Gournadai ...	1.11	0.80	0.70	0.20	0.20	0.20	0.20	8	2.16	3.08	0.38	5.72	0.38
		Noakhali ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	Nil	Nil	4.08	0.74	1.10	1.00
		Fenny ...	0.45	0.45	0.45	0.45	0.45	0.45	0.45	1	0.45	0.76	0.76	1.50	1.50
	Furteedpore ...	Kamraj ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.73	0.73	3.08	0.73
		Maderipore ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	2.02	0.61	1.17	1.00
		Purteedpore ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	4.44	0.87	0.90	1.07
	Dacca ...	Gaulunda ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	3.73	0.73	1.02	1.02
		Manshingunge ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	2.94	0.62	1.68	1.20
		Dacca ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	6.84	1.36	1.70	1.70
	Hill Tipperah ...	Naraindunge ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	4.84	0.96	1.52	1.07
		Mamchaurang ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	3.41	0.68	1.12	1.00
		Joydebpore ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.23	0.46	2.31	0.46
	Tipperah ...	Amritola ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	5.67	1.13	1.61	1.61
		Chandpore ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	7.01	1.40	1.71	1.71
		Brasmanbaria ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	6.67	1.33	1.14	1.14
	Mymensingh ...	Ramchandrapore ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	7.02	1.40	1.72	1.72
		Nasirabad ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	6.28	1.25	0.71	0.71
		Daudkandi ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.20	0.40	0.20	0.20
	Mymensingh ...	Kusba ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.20	0.40	0.20	0.20
		Lakshmi ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.20	0.40	0.20	0.20
		Kishoreganj ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.20	0.40	0.20	0.20
	Pabna ...	Atia (Tangaila) ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	7.05	1.41	3.04	3.04
		Mymensingh ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Jamalganj ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
	Bogra ...	Natorkona ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Subarnachal ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Durgapore ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
	Rajshahi ...	Sherpore Town ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	10.23	2.04	1.53	1.53
		Dewanganj ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Pabna ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
	Bogra ...	Sherpore ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Nowkhilla ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Bogra ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
	Rajshahi ...	Panchitibi ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Banuloh ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Natore ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
	Malda ...	Naogaon ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Lalpur ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Manda ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
	Dinapore ...	Maldah ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Chandahal ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Gajal ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
	Dinapore ...	Silganj ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Mohadebpore ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Churamun ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
	Rangpur ...	Baigunge ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Dinapore ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Balorahat ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
	Rangpur ...	Thakurgaon ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Bhawaniganj ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		(Gyabanda) ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
	Jalpaiguri ...	Kuriganj ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Haridra ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		(Nilphamari) ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
	Oench Behar ...	Uttara ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Uttara ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Uttara ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
	Darjeeling Hill ...	Uttara ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Uttara ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Uttara ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
	Purneah ...	Uttara ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Uttara ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Uttara ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
	North Bhagalpore ...	Uttara ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Uttara ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Uttara ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
	Darrhanga ...	Uttara ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Uttara ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Uttara ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
	Mouafferpore ...	Uttara ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Uttara ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4
		Uttara ...	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1	0.20	0.53	1.06	3.4	3.4

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 23rd of May 1890—concl.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 1st of May 1890.	Average rainfall from 1st of May to date.
			Saturday, 17th May.	Sunday, 18th May.	Monday, 19th May.	Tuesday, 20th May.	Wednesday, 21st May.	Thursday, 22nd May.	Friday, 23rd May.	Number of rainy days.	of Rainfall week.				
NORTH BENGAL—continued.	Chharpurno.	Motihari	1.70							1	1.70	1.70	1.70	1.70	0.63
		Bettiah	0.55				0.18				0.73	1.40	1.41	0.73	0.50
		Begha								NH	NH	0.12	?	NH	?
		Barhara			0.12					1	0.12	1.07	?	0.12	?
SOUTH BENGAL	Baras	Gopalgunge								NH	NH	0.14	1.76	NH	0.28
		Sewan								NH	NH	0.20	1.07	NH	0.31
		Chuprah								NH	NH	0.23	0.44	NH	0.27
		Buxar								NH	NH	0.46	0.46	NH	0.60
	Bhahabad	Dahree								NH	NH	0.34	0.78	NH	0.60
		Bhabooah								NH	NH	0.23	0.77	NH	0.32
		Sameram								1	0.23	0.77	0.77	0.23	0.23
		Arrah								?	0.12	0.10	0.87	0.12	0.23
		Mohantah	0.10				0.02			?	0.12	0.10	0.87	0.12	0.23
	Gya	Aurangabad								NH	NH	NH	1.00	NH	0.60
		Gya								NH	NH	0.20	1.00	NH	0.60
		Nowadah						0.61		1	0.61	0.76	1.38	0.61	0.60
		Johannabad	0.01					0.30		1	0.31	0.40	0.68	0.31	0.40
	Patna	Arwal								NH	NH	0.07	?	NH	?
		Daudnagar								NH	NH	0.07	?	NH	?
		Sherrghati								NH	NH	0.07	?	NH	?
		Rajauli								NH	NH	0.07	?	NH	?
	Patna	Patna	0.08				0.25			2	0.31	3.40	1.06	0.57	0.60
		Chhapra								NH	NH	1.31	0.78	NH	0.23
		Mahar								NH	NH	1.31	1.53	NH	0.23
		Barh								NH	NH	1.23	1.40	NH	0.23
	Mouhys	Bickram							0.02	1	0.02	0.02	0.02	0.02	?
		Hilak								NH	NH	0.02	?	NH	?
	South Bhagalpore	Begocera								NH	NH	1.58	1.58	0.41	0.73
		Manahyr		1.10						1	1.10	3.10	1.56	1.52	0.71
		Jamui								NH	NH	0.14	1.40	0.14	0.62
		Gogri		1.17						1	1.17	3.02	?	1.17	?
	South Bhagalpore	Shailpore								NH	NH	0.11	?	NH	?
		Bhagalpore		0.62						1	0.62	2.91	1.73	0.77	0.77
		Barh		0.17						1	0.17	1.37	1.90	0.35	0.37
		Kaig-as								NH	NH	2.25	?	0.35	?
	South Patna	Bongson			1.10					1	1.10	2.30	?	1.10	?
		Rajmehar								NH	NH	2.32	2.32	1.34	1.30
		Goda		0.23				0.30		2	0.53	2.85	1.34	2.43	0.64
		Pakour						0.06	0.34	2	1.30	0.06	2.12	0.32	0.35
	Nagpur	Nya Dookha			0.02			0.30		2	0.32	0.70	1.73	0.32	0.35
		Deothur			0.02			0.30		2	0.32	0.70	1.73	0.32	0.35
		Jamara			1.13			0.30		1	1.13	1.34	2.41	1.13	0.60
		Mokapara								1	1.13	1.34	2.41	1.13	0.60
OUTER BENGAL	Nagarbhat	Nagarbhat			0.12					1	0.12	0.12	?	0.12	?
		(Girid)			0.06			0.30		2	0.36	1.07	1.22	0.36	0.30
		Nagarbhat			0.04					1	0.04	0.31	1.17	0.11	0.20
		Semagur								NH	NH	0.61	1.12	NH	0.15
	Shooler Hills	Mahudi Hills								NH	NH	0.40	1.43	NH	0.19
		Barh								NH	NH	0.23	?	NH	?
		Chakra						0.10		1	0.10	1.00	?	0.10	?
		Karagaha			0.20			0.11		2	0.40	1.29	?	1.29	?
	Lohardugga	Kamhar								NH	NH	1.20	?	0.55	?
		Lohardugga			0.21					1	0.21	0.75	0.37	0.21	0.40
		Ranhi		0.21	0.21					2	0.42	1.06	1.70	1.09	0.40
		Palnaw		0.21	0.21		0.36			3	1.18	1.18	0.59	1.18	0.40
	Singbham	Hill		0.20	0.20					2	0.40	1.40	?	1.40	?
		Bahara								NH	NH	?	?	NH	?
		Mohantah								NH	NH	?	?	NH	?
		Garwah								NH	NH	?	?	NH	?
	Mambhoom	Chyebam			0.12			1.00		2	1.12	2.72	2.62	2.60	1.01
		Chakradhar								?	?	?	?	?	?
		Chakradhar		0.20				1.00		2	1.20	2.70	?	2.04	?
		Chakradhar			0.21			0.20		2	0.41	2.25	?	1.40	?
	Mambhoom	Parula						0.30		1	0.30	1.46	2.67	0.71	1.17
		Gobindpore			0.04					1	0.04	0.19	1.27	0.04	0.04
		Mambhoom								NH	NH	0.30	?	NH	?
		Barbathoom							0.20	1	0.20	0.30	?	0.30	?
	Doo	Jhalda		0.22						1	0.22	1.33	?	0.22	?
		Doo			0.08			0.41		2	0.46	0.46	?	0.46	?

Explanation.—... indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding space in the total rainfall columns are left blank.

CALCUTTA, the 27th May, 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-
TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE
23RD OF MAY 1890.

WEATHER during the week has been very uniform in character, pressure distribution remaining practically unchanged, while easterly winds have been very prevalent except in Orissa and Chutia Nagpur, and scattered or general rainfall in all districts every day of the week. The rainfall in East and North Bengal at this season is much heavier than at the commencement of May, from the irregular incursion of moist winds from the east, when the monsoon may be said to have commenced. But generally these conditions do not extend as far as the western districts. During the past week the almost constant east winds have brought a larger proportion of these moist masses of air and very showery weather has been general in South-West Bengal and Orissa, while in North and East Bengal considerably less rain has fallen than in an average year. The rainfall and changes of temperature have been irregular, the latter depending on the former; but pressure has hardly changed, and light winds have been blowing throughout the week. The usual distribution of pressure has been as follows:—low pressure over Chutia Nagpur and sometimes over Orissa and the head of the Bay, and the highest pressure in North or East Bengal, so that isobars have been running north and south or from north-west to south-east, the easterly winds being due to this arrangement, and therefore the rainfall also. As the winds became less easterly the rainfall seemed to diminish, and there was a very marked difference on alternate days at the beginning of the week. On Saturday and Monday, with the gradients running from north-west to south-east and strongly easterly winds, showers were much more general than on Sunday and Tuesday, when the gradients were from north to south and the easterly circulation not so marked. On Wednesday the weather was more unsettled, and almost general rain fell in all districts, while on Thursday pressure was low over Behar, and normal conditions were beginning to appear; but from the irregular winds still blowing in Lower Bengal on that day, a few scattered showers continued to fall. On Friday ordinary weather prevailed, and a few showers fell in North Bengal only.

Pressure—Continued uniformly above the normal by amounts varying up to seven-hundredths of an inch till the last two days of the week, when excess was almost everywhere below a twentieth of an inch. The means for the week are, therefore, all above the normal by about a twentieth of an inch in North Behar and two to three-hundredths of an inch in all other districts. Pressure changes have almost without exception been under a twentieth of an inch, the only case where this has been exceeded being the fall of .07 inch in the north-west corner of the Bay on Wednesday.

Temperature—Has generally been below the normal, and variations have been large and irregular owing to the variable character of the rainfall. At the commencement of the week there was defect of six or seven degrees in the centre of Bengal and of under five degrees in the outer districts, and this defect has continued in the western districts, but in the east and north occasionally high temperature has occurred as rainfall decreased in amount. The means are all below the normal, very slightly in Assam, by about 1° in East Bengal and Orissa, by 2° in North Bengal, South Behar, and Chutia Nagpur, and by nearly 3° in South-West Bengal and North Behar. These means shew how irregular the temperature distribution has been, as even after the smoothing process great diversity remains.

Rainfall—Has been nearly an inch in excess in Orissa and South-West Bengal, as much in defect in East and North Bengal, a third of an inch above the normal in North Behar, slightly below in South Behar, and normal in Chutia Nagpur. Some heavy falls are reported from the Midnapore district, the heaviest being 6.4 inches at Contai and 4.8 inches at Tumlook; the heaviest in South-West Bengal 4.1 inches at Lalgola in the Moorshedabad district and over 3 inches in Nudda and Jessore. In East and North Bengal the showers were very scattered, and falls are rarely over 2 inches. In North Behar general rain fell on Monday and scattered showers on the two following days, but for the rest of the week practically no rain fell there, as in South Behar for the whole week. Showers were most numerous in Chutia Nagpur on Monday and Thursday, but only three stations—one in Lohardugga and the other two in Singbhoom—received more than one inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 23rd of May 1890 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.						RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 1st of May 1900.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average same day in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	105°9	72°1	88°0	73°8	83°9	-1°8	1°60	0°70	+0°70	27	1°3	+1°4	2°40	2°53	1°03	0°03
South-West Bengal ...	102°1	67°6	84°1	76°0	82°6	-2°8	1°00	0°75	+0°91	28	1°0	+0°9	2°97	3°04	2°27	0°08
East Bengal	94°3	60°5	80°5	73°8	83°7	-1°0	0°55	1°30	-0°62	18	2°1	-0°5	4°34	6°55	1°31	1°71
North Bengal	97°7	65°1	80°5	73°8	81°5	-2°0	0°70	1°00	-0°31	20	2°2	-0°3	4°21	5°06	1°57	2°19
North Bihar	100°3	68°8	83°6	74°5	83°4	-2°7	0°53	0°50	+0°33	18	0°8	+0°3	1°54	1°06	0°97	0°71
South Bihar	107°4	71°7	89°1	78°3	88°6	-2°1	0°32	0°33	-0°20	0°8	0°8	0	1°23	1°43	0°40	0°63
Chutia Nagpur	102°9°	70°4°	86°3°	74°3°	85°4°	-2°0°	0°41	0°40	+0°01	1°1	1°1	+0°1	1°21	1°06	0°33	0°33
Assam	93°6	68°4	85°5	73°5	80°9	-0°2										

* Chyabasa not included.

METEOROLOGICAL OFFICE, BENGAL ;
The 27th May 1890.

C. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 18th to 24th May 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.					HYGROMETRY.				Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
May 1890 ...	18th ...	29·747	87·4	95·5	16·2	79·3	80·6	80·7	·928	77·0	60	...
" " "	19th ...	770	85·2	97·0	22·4	74·6	82·4	82·5	·842	74·0	63	0·02
" " "	20th ...	745	88·8	97·8	18·0	79·8	82·4	82·0	·853	77·8	62	...
" " "	21st ...	720	85·8	96·0	20·4	75·6	82·6	82·5	1·030	80·1	77	0·48
" " "	22nd ...	733	83·7	95·0	22·7	72·3	87·1	78·5	·860	74·7	63	0·90
" " "	23rd ...	735	84·3	97·0	17·4	79·6	91·0	83·1	1·027	80·0	70	...
" " "	24th ...	701	86·6	96·3	16·0	80·3	92·1	86·6	1·082	80·2	69	...

The mean 10 A.M. pressure of the seven days Inches. 29·736

The mean temperature of the seven days 86·9

The extreme variation of temperature 25·5

The maximum temperature 97·8

The mean 10 A.M. relative humidity of the seven days % 68

The total fall of rain from 18th to 24th May 1890 Inches. 1·44

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;
The 26th May 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from
18th to 24th May 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
May	18th	150.8	9.7	29.692	84.6	93.6	15.2	78.8	78.2	0.864	75.3	75	SE by S, SSW and variable.	163	0.02	Partially cloudy, o, g, d, t, <.
"	19th	147.5	11.0	29.686	85.8	95.7	21.9	75.8	77.3	0.827	73.5	68	ENE and variable ...	82	Nil	Partially cloudy.
"	20th	148.9	10.0	29.683	86.3	98.5	17.4	79.1	79.8	0.932	77.1	76	SSW, S and variable.	163	0.18	Partially cloudy, o, t, <, p.
"	21st	148.8	9.6	29.684	85.2	95.1	20.8	74.3	79.1	0.918	76.6	77	SW, SSE and variable.	116	1.02	Chiefly cloudy, o, g, t, <, p.
"	22nd	149.1	10.8	29.673	84.8	94.1	23.3	70.8	78.3	0.885	75.6	74	S, SSW and variable	149	0.47	Chiefly cloudy, p.
"	23rd	142.6	10.0	29.669	87.3	95.2	16.5	78.7	81.5	1.000	79.2	78	SE by S and SSW ...	102	Nil	Partially cloudy, <.
"	24th	149.4	10.2	29.627	86.9	94.0	14.5	79.5	80.6	0.963	78.1	76	SSW and variable ...	188	0.18	Partially cloudy, o, g, p, <, <.

The mean pressure of the seven days ... 29.673

The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 29.647

The total number of hours of bright sunshine ... 70.8

The maximum possible number of hours of sunshine ... 92.8

The mean temperature of the seven days ... 85.8

The average temperature of the corresponding period for 24 years, S.-G.'s Office ... 86.9

The extreme variation of temperature ... 25.7

The maximum temperature ... 96.5

The highest velocity of the wind in one hour ... 17

The highest pressure of wind on one square foot ... Approximately 8

The mean relative humidity ... 75

The average relative humidity of the corresponding period for 24 years, S.-G.'s Office ... 73

The total fall of rain from 18th to 24th May 1890 ... 1.87

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 0.77

The total fall from 1st January to 24th May 1890 ... 6.34

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 8.00

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, d drizzling rain, t thunder, < lightning, p passing temporary showers, < dew.

In the weekly report from 4th to 10th May 1890 read 75.3 for 70.8 as dew point of the 10th May 1890.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 62th May 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 10th May 1890.

BIRTHS.

BIRTHS registered during the week ending with Saturday, the 10th May 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 15.3 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is lower than the average rate of the corresponding week of the past five years by 3.3, and is also lower than the rate of the corresponding week of any of the past five years with which comparison is instituted, vide the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Rate of births per 1,000 of the population per annum	34.3	16.3	16.2	17.2	19.1	19.6	15.3

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	WEEKS ENDING—				Towns.	WEEKS ENDING—			
	16th April 1890.	23rd April 1890.	3rd May 1890.	10th May 1890.		16th April 1890.	23rd April 1890.	3rd May 1890.	10th May 1890.
Bardwan	30.5	22.9	9.2	16.3	Narainjanj	41.4	34.9	26.7	34.9
Bahinipore	16.5	17.0	12.4	6.2	Chittagong	2.3	11.7	9.4	16.4
Hughli and Chinsurah	21.6	34.5	23.0	24.6	Comillah	11.6	30.4	48.4	50.1
Berampore	27.3	9.8	13.7	10.4	Patna City	7.8	6.2	8.5	7.5
Uttarpara	16.9	9.4	9.4	18.9	Gya	15.7	21.9	13.3	14.3
Howrah	17.8	13.2	17.8	15.5	Arrah	16.4	10.8	14.4	10.8
Rah	10.8	7.0	21.7	7.0	Moulampur	13.4	18.9	10.9	15.8
Kishanganj	22.7	3.8	22.7	17.0	Durhanga	21.2	21.2	16.5	31.8
Banaghat	24.0	12.0	0.0	...	Chupra	21.7	18.1	10.0	5.0
Banpur	3.8	7.0	18.8	17.5	Bhagalpur	22.3	19.0	17.8	14.5
Jessore	15.4	6.1	...	12.4	Monghyr	24.3	34.1	34.6	24.3
Banpur Boudhah	31.6	24.2	21.0	31.5	Burneah	21.0	18.9	16.8	18.9
Darjiling	14.8	7.4	14.8	44.6	...	...	...	...	...
Dacca	15.8	22.4	6.8	13.6	...	...	...	...	...

It will be seen that last week the highest birth-rate was returned from Comillah (50.1) and the lowest from Chupra (5.0). No births were registered during the week in Banaghat town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 26.9 per 1,000 of the population. The rate of the week is by 4.9 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1885, vide the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years.	1890.
Rate of deaths per 1,000 of the population per annum	29.8	20.4	21.2	17.0	21.5	22.0	26.9

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	WEEKS ENDING—				Towns.	WEEKS ENDING—			
	16th April 1890.	23rd April 1890.	3rd May 1890.	10th May 1890.		16th April 1890.	23rd April 1890.	3rd May 1890.	10th May 1890.
Bardwan	29.0	23.9	21.4	24.4	Narainjanj	13.4	8.3	16.8	15.4
Bahinipore	20.1	13.9	17.0	37.5	Chittagong	9.4	21.1	2.0	7.0
Hughli and Chinsurah	65.9	54.2	65.6	47.6	Comillah	11.4	11.0	19.3	23.1
Berampore	47.1	40.1	31.4	45.2	Patna City	20.8	40.6	20.3	22.5
Uttarpara	47.2	47.3	9.4	...	Gya	64.4	24.2	22.0	21.4
Howrah	20.9	17.5	17.2	15.5	Arrah	22.7	22.6	25.1	9.8
Rah	21.4	10.5	31.6	10.3	Moulampur	18.3	19.5	21.0	24.3
Kishanganj	11.4	7.6	12.1	2.8	Durhanga	22.8	24.6	22.3	24.3
Banaghat	6.0	...	47.9	18.0	Chupra	21.1	22.1	20.1	11.1
Banpur	2.8	5.2	8.8	3.8	Bhagalpur	22.9	24.6	25.3	26.0
Jessore	42.8	18.6	24.5	23.6	Monghyr	24.9	27.1	22.3	19.0
Banpur Boudhah	22.8	22.2	12.4	22.9	Burneah	24.6	21.2	27.7	27.7
Darjiling	20.3	10.7	11.4	22.9	...	...	...	...	...
Dacca	15.2	20.2	17.5	24.0	...	...	...	...	...

It will be seen that last week the highest mortality occurred in the town of Darjiling (88·9) and the lowest in Santipore (3·5).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

<i>Cholera.</i>		<i>Fever.</i>		<i>Other causes.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Patna City	... 18·2	Darjiling	... 74·1	Poori	... 21·0
Bhagulpore	... 18·8	Durbhanga	... 84·6	Midnapore	... 13·9
Hughli and Chinsurah	... 11·5	Hughli and Chinsurah	29·5	Baranpore	... 13·7
Durbhanga	... 7·9	Kanpore Beaulah	... 21·0	Gya	... 12·3
Howrah	... 4·0	Purneah	... 20·8	Bhagulpore	... 11·7

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 5·4 from cholera, against 4·9 per 1,000 in the preceding week; 11·9 from fever, against 12·4; 2·3 from bowel-complaints, against 1·9; 2 from injury, against 4; 6·4 from other causes, against 5·9 in the preceding week; and 7 from small-pox, against 1·2. The mortality from small-pox is noticeably severe in the Patna City, there being six deaths (1·9 per 1,000 of population).

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	... 29·9	Christians	... 7·5	Under 1 year	... 196·7
Females	... 23·6	Hindus	... 28·0	1 and under 5 years	... 40·3
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	... 126	Mahomedans	... 24·4	5 " 10 "	... 13·7
		Budhists	... 25·7	10 " 15 "	... 10·3
		Other classes	... 76·8	15 " 20 "	... 23·8
				20 " 30 "	... 19·5
				30 " 40 "	... 17·2
				40 " 50 "	... 20·8
				50 " 60 "	... 29·5
				60 years and upwards	... 61·4

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 26th May 1890.

DISTRICTS.	NAMES OF MUNICIPALITIES.	Class.		Mortality according to—										Age.													
		Ratio per 1,000 of population per annum.		Deaths.										Ratio per 1,000 of population per annum.													
		Deaths.	Ratio per 1,000 of population per annum.	Deaths.										Ratio per 1,000 of population per annum.													
				Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 and under 70 years.	70 and under 80 years.	80 and under 90 years.	90 and under 100 years.	100 and under 110 years.	110 and under 120 years.	120 and under 130 years.	130 and under 140 years.	140 and under 150 years.	150 and under 160 years.	160 and under 170 years.	170 and under 180 years.	180 and under 190 years.	190 and under 200 years.	
Burdwan	Burdwan	15	26.3	6	1	1	1	1	1	1	1	1	1	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3
Midnapore	Midnapore	18	26.1	1	1	1	1	1	1	1	1	1	1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1
Hughli	Hughli and Chinsurah	24	40.4	4	4	4	4	4	4	4	4	4	4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
Seemapore	Seemapore	20	41.3	2	4	4	4	4	4	4	4	4	4	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
Howrah	Howrah	19	16.5	6	1	1	1	1	1	1	1	1	1	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
Wadda	Wadda	3	11.8	1	1	1	1	1	1	1	1	1	1	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
Jessore	Jessore	3	21.3	1	1	1	1	1	1	1	1	1	1	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
Rajshalye	Rajshalye	9	5.0	1	1	1	1	1	1	1	1	1	1	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Darjiling	Darjiling	11	16.5	3	1	1	1	1	1	1	1	1	1	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
Dacca	Dacca	20	26.3	7	3	1	3	1	7	4	3	3	3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3
Chittagong	Chittagong	3	16.4	1	1	1	1	1	1	1	1	1	1	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
Tipperah	Tipperah	3	26.3	3	1	1	1	1	1	1	1	1	1	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3
Panna	Panna City	73	31.5	6	12	6	7	3	13	13	3	3	3	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
Gye	Gye	37	32.1	14	8	3	3	3	1	3	3	3	3	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
Shahabad	Shahabad	6	10.1	2	1	1	1	1	1	1	1	1	1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
Moultehpore	Moultehpore	11	19.6	7	3	4	1	1	3	1	1	1	1	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
Durbhanga	Durbhanga	51	54.8	10	17	7	3	6	9	4	7	7	7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
Baran	Baran	6	7.9	4	1	1	1	1	1	1	1	1	1	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
Bhagulpore	Bhagulpore	34	44.5	11	6	2	3	1	7	3	3	3	3	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
Monohyr	Monohyr	14	16.3	1	2	1	3	3	3	3	3	3	3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
Purneah	Purneah	1	31.4	3	1	1	1	1	1	1	1	1	1	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4
Footi	Footi	21	44.5	8	3	1	1	3	1	3	3	3	3	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
TOTAL	TOTAL	1 400	28.0	96	72	29	19	37	70	53	50	44	65	196.7	40.3	13.7	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3

W. H. GREGG, Dip. Publ. Health, Camb.,
Sanitary Commissioner for Bengal.

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 28th May 1890.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 24th May 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 24TH MAY 1890.			WEEK ENDING SATURDAY, THE 25TH MAY 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	221	53,900	712	211	54,500	760
Jute	24	11,600	220	9	4,325	51
Firewood	97	53,200	743	114	66,100	941
Other articles	828	2,80,020	8,553	658	2,25,080	3,326
Total	1,170	3,78,320	5,228	990	3,49,005	5,008

Eastern Bengal State Railway.

*Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of
February 1890, as compared with the same month of the previous year.*

STAPLES.	1890.		1889.		TOTAL.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.		
Coal	12,464	2,497	12,968	2,180	19,961	18,998	963	.....
Cotton, raw	120	1,100	.....	802	1,226	802	724	.....
Cotton goods—								
1.—European—								
a.—In bales and bundles	2,726	86	2,412	180	2,791	2,637	174	.....
b.—In boxes	.....	.....	.....	.....	.....	.....	.....	.....
2.—Indian—								
a.—In bales and bundles	.....	.....	.....	.....	.....	.....	.....	.....
b.—In boxes	.....	.....	.....	.....	.....	.....	.....	.....
Grains—								
1.—Rice	2,001	2,500	2,061	2,479	4,174	4,147	2,027	.....
2.—Others	965	14,764	626	7,266	11,709	7,894	2,775	.....
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	7	708	20	646	713	666	20	.....
b.—Undressed	.....	.....	.....	.....	.....	.....	.....	.....
2.—Skins of sheep, &c.—								
a.—Dressed	.....	.....	.....	.....	.....	.....	.....	.....
b.—Undressed	.....	.....	.....	.....	.....	.....	.....	.....
Jute—								
1.—Raw—								
a.—Screwed	.....	2,904	.....	1,048	2,904	1,048	1,519	.....
b.—Unscrewed	1	9,095	27	2,525	9,097	2,618	2,013	.....
2.—Gunny-bags and cloth	254	964	105	634	1,216	1,000	216	.....
Metals—								
1.—Copper, unwrought	.....	.....	.....	.....	.....	.....	.....	.....
2.—Brass, unwrought	.....	.....	.....	.....	.....	.....	.....	.....
3.—Brass and copper, wrought	1,600	100	1,200	211	1,800	1,205	597	.....
4.—Iron	.....	.....	.....	.....	.....	.....	.....	.....
5.—Tin	.....	.....	.....	.....	.....	.....	.....	.....
6.—Others	.....	.....	.....	.....	.....	.....	.....	.....
Oil—								
1.—Kerosene	444	1	247	10	445	248	200	.....
2.—Others	200	63	112	46	261	161	100	.....
Oilseeds—								
1.—Linseed	.....	.....	.....	.....	.....	.....	.....	.....
2.—Rape and mustard	.....	.....	.....	.....	.....	.....	.....	.....
3.—Til or gingelly	.....	.....	.....	.....	.....	.....	.....	.....
4.—Niger	.....	.....	.....	.....	.....	.....	.....	.....
5.—Castor	120	2,200	20	2,600	2,220	2,718	.....	1,370
6.—Poppy	.....	.....	.....	.....	.....	.....	.....	.....
7.—Others	.....	.....	.....	.....	.....	.....	.....	.....
Provisions—								
1.—Rice	100	1,000	100	74	1,100	200	900	.....
2.—Others	616	470	677	804	1,041	1,061	.....	20
Railway plant and rolling-stock	2,231	1,637	2,314	1,637	3,408	3,141	.....	1,220
Salt	2,753	6	2,444	15	2,791	2,460	1,300	.....
Sugar—								
1.—Drained	1,201	900	1,100	1,000	2,121	2,016	.....	600
2.—Undrained	.....	.....	.....	.....	.....	.....	.....	.....
Tea—								
1.—Foreign	.....	20	6	20	22	20	19	.....
2.—Indian	.....	.....	.....	.....	.....	.....	.....	.....
Wood—								
1.—Timber	25	100	65	100	214	220	.....	44
2.—Firewood	1,647	.....	1,646	.....	1,640	1,645	.....	200
Tobacco	62	200	25	200	1,001	888	110	.....
All other articles of merchandise—								
1.—Unmanufactured	4,600	1,200	4,000	1,000	6,120	4,027	.....	400
2.—Manufactured	.....	.....	.....	.....	.....	.....	.....	.....
Hay, straw, and wool (C. & S. S. Section)	779	.....	1,000	.....	779	1,000	.....	220
Total	40,908	41,807	37,788	33,210	52,733	70,973	16,001	4,240

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of February 1890.

INCREASES.						Tons.
Coal	...	...	...	...	...	995
For railway and boiler consumption.	...	...	...	...	...
Cotton, raw	...	...	...	...	...	734
Principally in booking from Armenian Ghat, also from Narayangunga.	...	...	...	...	...
Rice	...	...	...	...	...	2,037
The Northern Section contributed 1,500 tons of this increase and the Southern Section the remainder.	...	...	...	...	...
Jute, screwed	...	...	...	...	...	1,319
Kawraid, Damani, and Saidpur were the principal stations despatching screwed jute during the month.	...	...	...	...	...
Jute, unscrewed	...	...	...	...	...	3,516
Damoodia and Goswami show the largest increase, but there were small increases from all the principal jute-booking stations on the system.	...	...	...	...	...
Betal-nuts	...	...	...	...	...	830
Principally from B. C. F. stations.	...	...	...	...	...
Salt	...	...	...	...	...	1,309
The increase is almost exclusively in booking from Chitpore.	...	...	...	...	...
DECREASES.						
Oil-seeds	...	...	...	...	...	1,178
Due to unfavorable crop in the district.	...	...	...	...	...
Railway plant, &c.	...	...	...	...	...	1,333
Due to completion of works on the Behar Section.	...	...	...	...	...
Sugar	...	...	...	...	...	695
Falling off in despatches from Chocadanga, Munshiganj, Hala; also in receipts from B. C. Railway.	...	...	...	...	...

CALCUTTA, the 12th May 1890.

F. P. QUINLAN,
Examiner of Accounts.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 17th May 1890, on 1,526½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	208,488	2,62,333 4 0	20,37,786 10	6,34,306 4 0	20,700 13 6	9,07,809 8 0	63,804	100,862½	164,666½
Or per mile of railway	...	171 15 5	...	409 4 11	13 9 11	594 16 3	...	...	...
For previous 19 weeks of half-year	4,330,261	54,70,794 8 0	5,00,67,576 10	1,17,34,612 15 3	3,82,081 1 9	1,75,87,428 9 0	1,346,668½	1,534,864½	3,081,533½
Total for 20 weeks	5,300,779	67,33,117 12 0	5,27,66,281 20	1,23,59,066 3 3	4,02,811 14 9	1,84,94,957 14 0	1,512,332½	1,935,836½	3,448,169
COMPARISON.									
Total for corresponding week of previous year	274,332½	2,47,515 8 0	31,60,606 30	7,38,912 11 3	26,712 1 6	10,97,163 1 9	63,786	112,770	176,556
Per mile of railway corresponding week of previous year	...	162 4 1	...	461 1 6	16 13 8	660 3 3	...	...	...
Total to corresponding date of previous year	5,861,319½	69,63,448 2 0	5,05,74,038 9	1,24,48,509 14 10	3,41,646 6 3	1,87,53,573 7 1	1,516,461	1,970,615	3,507,076

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1893.

RECEIPTS FOR WEEK ENDING 18TH MAY 1890.			RECEIPTS FOR WEEK ENDING 17TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 18TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 17TH MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,526½	10,07,143	660	1,526½	9,07,809	596	1,530½	19,07,900	661	1,526½	19,06,300	596	...	3,01,340

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 17th May 1890, on 67½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week	13,305	Rs. A. P. 6,335 11 0	Mds. c. 45,012 0	Rs. A. P. 2,860 1 0	Rs. A. P. 84 0 0	Rs. A. P. 9,387 12 0	1,512	883	2,395
Or per mile of railway	256	116 11 5	757 0	51 0 3	0 15 1	163 5 11	.....	.....	.....
For previous 19 weeks of half-year	256,046	1,394,335 14 0	19,40,201 0	161,728 14 0	3767 4 0	1,99,769 0 0	51,570½	12,978	64,548½
Total for 20 weeks	277,357	1,42,530 9 0	9,94,213 0	64,675 15 0	521 4 0	2,00,090 13 0	53,032½	14,956	67,988½
COMPARISONS.									
Total for corresponding week of previous year	12,307	5,637 9 0	51,240 20	2,038 7 0	27 1 4	2,663 12 0	1,871	940	2,811
Per mile of railway corresponding week of previous year	217	85 0 11	896 0	32 12 5	0 7 7	145 5 11	.....	.....	.....
Total to corresponding date of previous year	256,406	1,51,540 13 10	8,67,001 0	59,905 2 0	1,485 8 0	1,84,020 6 10	50,457	14,620	65,077

* Added No. of passengers 8,000 and Rs. 7,075 0 0 }
 † Ditto Mds. 16,512 " 201 0 0 } on account of differences between the approximate and audited returns to week ended 29th March 1890.
 ‡ Ditto " 25 0 0 }

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 16TH MAY 1890.			RECEIPTS FOR WEEK ENDING 17TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 16TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 17TH MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
7½	Rs. 2,457	Rs. 148	87½	Rs. 2,536	Rs. 165	87½	Rs. 49,425	Rs. 165	87½	Rs. 49,436	Rs. 166	Rs. 12,081	Rs.

* Added Rs. 7,307 on account of difference between the approximate and audited returns to week ended 29th March 1890.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 17th May 1890, on 23½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week	19,000	Rs. A. P. 6,086 16 0	Mds. c. 9,765 20	Rs. A. P. 313 14 0	Rs. A. P. 7 9 0	Rs. A. P. 6,408 5 0	900	86	986
Or per mile of railway	236	258 10 0	.....	14 1 8	0 5 8	243 1 1	.....	.....	.....
For previous 19 weeks of half-year	400,945	1,16,764 8 0	72,34,974 10	19,410 14 0	2163 1 0	1,34,339 2 0	16,853	2,790	19,643
Total for 20 weeks	440,212	1,19,831 1 0	8,06,717 20	2,733 12 0	192 10 0	1,19,777 7 0	17,754	2,145	19,900
COMPARISONS.									
Total for corresponding week of previous year	20,236	4,804 3 7	7,609 10	234 4 0	19 1 3	5,067 4 10	912	56	968
Per mile of railway corresponding week of previous year	.....	212 1 9	.....	19 12 3	0 15 9	236 11 9	.....	.....	.....
Total to corresponding date of previous year	400,600	1,22,519 13 7	1,02,504 10	6,900 14 0	156 13 9	1,29,608 6 4	18,430	1,216	19,646

* Added number of passengers 6,515 and Rs. 1,463 }
 † Ditto mounds 26,044 " 320 0 0 } on account of differences between the approximate and audited returns to week ended 29th March 1890.
 ‡ Deducted " 8 " }

Approximate Statement of gross receipts of the Tarkeessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 16TH MAY 1890.			RECEIPTS FOR WEEK ENDING 17TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 16TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 17TH MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
23½	Rs. 2,397	Rs. 227	23½	Rs. 2,400	Rs. 245	23½	Rs. 48,441	Rs. 211	23½	Rs. 48,614	Rs. 212	Rs. 72	Rs.

* Added Rs. 1,711 on account of difference between the approximate and audited figures to week ended 29th March 1890.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B. DACCA, K. AND D., AND ASSAM-BHAR SECTIONS.)

Approximate Return of Traffic for week ended 10th May 1890, on 747 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boats.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	199,729	77,950 0 0	5,21,710 c	90,740 0 0	17,300 0 0	1,28,440 0 0	22,861	27,087	49,948
Or per mile of railway...	268	104 0 0	696 c	121 0 0	23 0 0	177 0 0	30	36	66
For previous 19 weeks of half-year	2,937,329	14,63,337 0 0	1,01,90,180 c	19,78,486 0 0	2,53,990 0 0	26,81,063 0 0	406,979	531,562	938,541
Total for 19 weeks	2,120,030	14,79,867 0 0	1,09,11,800 c	19,69,166 0 0	2,70,540 0 0	21,19,603 0 0	425,966	529,469	955,435
COMPARISON.									
Total for corresponding week of previous year	140,109	60,376 0 0	5,45,651 c	85,908 0 0	27,212 0 0	1,53,496 0 0	21,426	24,267	45,693
Per mile of railway corresponding period of previous year	200	80 0 0	736 c	126 0 0	47 0 0	204 0 0	30	34	64
Total to corresponding date of previous year	2,646,026	14,15,486 0 0	95,27,309 c	18,90,098 0 0	2,51,094 0 0	21,57,568 0 0	406,328	499,428	905,756

* Audited up to week ending 18th March 1890.

† Excluding steamer earnings.

c Includes Rs. 21,723, profits of workshops.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 11TH MAY 1890.			RECEIPTS FOR WEEK ENDING 10TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 11TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 10TH MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
678	1,53,496	273	747	1,55,610	249	673	9,53,090	236	747	10,56,978	236	1,06,918	.....

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 10th May 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	31,420	9,030 0 0	49,990 c	2,410 0 0	50 0 0	12,490 0 0	2,736	1,937	4,673
Or per mile of railway...	251	72 0 0	399 c	19 0 0	4 0 0	100 0 0	22	15	37
For previous 19 weeks of half-year	508,194	1,73,116 0 0	9,61,267 c	55,432 0 0	1,196 0 0	2,29,734 0 0	65,657	34,230	99,887
Total for 19 weeks	233,614	1,52,144 0 0	10,11,337 c	58,932 0 0	1,245 0 0	2,42,224 0 0	60,372	36,175	96,547
COMPARISON.									
Total for corresponding week of previous year	29,204	9,806 0 0	27,794 c	3,974 0 0	80 0 0	13,633 0 0	2,661	1,991	4,652
Per mile of railway corresponding period of previous year	234	78 0 0	462 c	32 0 0	6 0 0	111 0 0	21	16	37
Total to corresponding date of previous year	249,149	1,08,928 0 0	10,90,011 c	61,983 0 0	4,780 0 0	2,55,609 0 0	69,727	36,676	106,403

* Audited up to week ending 18th March 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 11TH MAY 1890.			RECEIPTS FOR WEEK ENDING 10TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 11TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 10TH MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	12,490	111	125	11,490	100	125	77,939	166	125	71,316	95	.....	6,623

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 10th May 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	14,800	4,540 0 0	12,810 0	1,410 0 0	120 0 0	6,070 0 0	2,414	800	3,104
Or per mile of railway ...	169	53 0 0	154 0	16 0 0	3 0 0	71 0 0	...	...	...
For previous 15 weeks of half-year ...	204,100	1,04,617 0 0	4,40,100 0	42,801 0 0	2,944 0 0	1,50,000 0 0	42,812	12,000	54,812
Total for 15 weeks ...	222,650	1,09,377 0 0	4,52,910 0	44,204 0 0	3,064 0 0	1,54,738 0 0	45,027	12,800	57,827
COMPARISON.									
Total for corresponding period of previous year ...	12,818	4,379 0 0	12,120 0	700 0 0	124 0 0	5,123 0 0	2,405	1,042	3,447
Per mile of railway corresponding period of previous year ...	157	50 0 0	122 0	9 0 0	1 0 0	60 0 0	...	...	...
Total to corresponding date of previous year ...	204,005	99,905 0 0	2,30,504 0	18,678 0 0	2,148 0 0	1,12,000 0 0	44,541	14,000	58,541

* Audited up to week ending 10th March 1890

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 11TH MAY 1890.			RECEIPTS FOR WEEK ENDING 10TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 11TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 10TH MAY 1889.			Total increase in 1890.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	5,123	60	86	4,379	71	86	20,541	80	86	41,100	80	17,100	...

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 17th May 1890, on 273 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	41,807	12,910 0 0	2,17,940 0	21,620 0 0	2,700 0 0	46,000 0 0	4,923	6,000	10,923
Or per mile of railway ...	150	48 0 0	800 0	161 0 0	3 0 0	169 0 0	...	...	...
For previous 15 weeks of half-year ...	265,301	2,05,800 0 0	47,24,797 0	5,40,700 0 0	29,823 0 0	9,70,018 0 0	24,120	179,100	203,220
Total for 15 weeks ...	274,354	2,11,210 0 0	49,24,540 0	5,74,200 0 0	42,101 0 0	10,01,707 0 0	1,01,111	187,200	208,311
COMPARISON.									
Total for corresponding week of previous year ...	47,207	17,351 0 0	3,40,197 0	21,051 0 0	9,501 0 0	48,903 0 0	4,913	4,500	9,413
Per mile of railway corresponding week of previous year ...	174	63 0 0	814 0	77 0 0	20 0 0	100 0 0	...	...	...
Total to corresponding date of previous year ...	265,200	2,34,204 0 0	21,02,540 0	2,00,704 0 0	74,000 0 0	6,00,007 0 0	100,200	111,200	211,400

* Steamboat earnings included in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 17TH MAY 1890.			RECEIPTS FOR WEEK ENDING 17TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 17TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 17TH MAY 1889.			Total increase in 1890-91.	Total decrease in 1889-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	48,903	177	273	46,903	167	273	2,12,000	140	273	2,32,000	160	46,000	...



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, JUNE 4, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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PROPOSED INTERNATIONAL AGRICULTURAL CONGRESS IN VIENNA

The 2nd June, 1890.—The following correspondence is published for general information.

REVENUE DEPT.—*Mrs. F.;*

CALCUTTA,

The 2nd June, 1890.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

Circular No. $\frac{8}{5.7}$ M & Ex., dated Simla, the 15th May, 1890.

From—J. W. P. MUIR-MACKENZIE, Esq., c.s., Under-Secretary to the Govt. of India, Revenue and Agricultural Dept.,

To—The Secretary to the Government of Bengal.

In continuation of the circular from this Department No. 490 of the 19th December last, I am directed to forward, for the information of His Honor the Lieutenant-Governor of Bengal, a copy of a letter No. 311 of the 31st March, 1890, from the Imperial and Royal Austro-Hungarian Consul-General, Bombay, regarding a proposal to hold an International Agricultural Congress during the first week of September next, in connection with the Agricultural Exhibition to be held in Vienna in the course of this year.

2. I am to request that due publicity may be given to the information contained in the Consul-General's letter.

No. 311, dated Bombay, the 31st March, 1890.

From—F. STOCKINGER, Esq., Imperial and Royal Austro-Hungarian Consul-General, Bombay.

To—The Secretary to the Government of India, Foreign Department.

With reference to my letter dated the 31st August, 1889, No. 990, I am directed to inform you that in connection with the Agricultural Exhibition to be held in Vienna in the course of this year, it is proposed to hold also an International Agricultural Congress during the first days of September next.

Persons intending to be present at the Congress should give notice of their intention, and eventually also of the subject which they propose to lay before the Congress, during the month of April, 1890.

Before and after the Congress, General Assemblies will be held in which reports will be presented and speeches made, but no debates will take place. At the second general meeting the resolutions passed by the various sections will also be published.

The debates will be held in the German or French language.

The Congress will be divided into the following sections:—

I.—AGRICULTURE.

1. Agricultural management: agriculture, domestic animals, management of fields, veterinary subjects, &c.
2. Special branches of agriculture: culture of fruit, wine, vegetables, tobacco, hop, hemp, silk-worms, bees, breeding of fish, &c.
3. Agricultural engineering: organization of the service, draining and irrigation, regulating of rivers, canals, reservoirs, cisterns, conduits, marshes, division of land, buildings, means of transport, the use of waste-stuff, &c.
4. Agricultural industry: the manufacture of sugar, brewing mills, dairy-farming, &c.
5. Agricultural education and agronomic researches.

II.—FORESTRY.

6. Management of forests: generally wood-and-timber-trade, forest engineering, recent researches and experiences, &c.

III.—AGRICULTURE AND FORESTRY.

7. Political economy: agrarian legislation and policy, statistics, societies, insurance, agricultural banks, protection of birds, &c.

Intending members are requested to send after the 1st of July next 10 florins or 25 francs (£1) to the Committee of the Agricultural Congress in Vienna (1 Herrengasse 13) when they will receive their tickets as members and also a special programme of the proceedings.

Special reductions on the Austro-Hungarian Railways will be granted to members, as also a season ticket for the Agricultural Exhibition. They will also be admitted to the fêtes given on the occasion and to the excursions to different large estates which will be made after the Congress.

The above-named Committee will also be glad to give all further information on the subject.

I have the honour to request you to bring the foregoing information to the notice of the respective Indian authorities as soon as possible.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 31st May, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.																	
BENGAL.																				
<i>Western Districts.</i>																				
1	Burdwan May 31, '90	0.99	Weather—hot; occasional rain. Ploughing going on. Aus and amra are being sown. Sugarcane and fls doing fairly well. Prices of common rice:—																	
	Culina ...	1.12																		
	Cutwa ...	1.44																		
	Ranigunge ...	1.68																		
			<table> <tr> <td>Burdwan</td><td>...</td><td>18</td><td rowspan="4">} per rupee.</td></tr> <tr> <td>Culina</td><td>...</td><td>14</td></tr> <tr> <td>Cutwa</td><td>...</td><td>14½</td></tr> <tr> <td>Ranigunge</td><td>...</td><td>16</td></tr> </table>	Burdwan	...	18	} per rupee.	Culina	...	14	Cutwa	...	14½	Ranigunge	...	16				
Burdwan	...	18	} per rupee.																	
Culina	...	14																		
Cutwa	...	14½																		
Ranigunge	...	16																		
2	Bankura „ 31, '90	2.09	Weather—seasonable. Ploughing and sowing of rice going on everywhere. Indigo and sugarcane plants thriving. It is estimated that the whole of the area under sugarcane has been cultivated with it this year in the Bishenpore subdivision. Common rice selling at 19 seers per rupee at Sudder and 16 seers at Bishenpore.																	
3	Birbhum „ 31, '90	0.99	Weather—hot. Ploughing in progress. Planting of sugarcane nearly finished. Coarse rice selling at from 15 to 20 seers per rupee.																	
	Rampore Haat ...	1.88																		
4	Midnapore „ 31, '90	1.68	Weather—cloudy. Frequent rain and storms. Preparation of all lands going on briskly. Indigo doing well. Local stocks of grain ample. Prices of common rice:—																	
	Contai ...	3.04	<table> <tr> <td></td><td>Sra. Ch.</td><td></td><td rowspan="4">} per rupee.</td></tr> <tr> <td>Sudder</td><td>...</td><td>18 0</td></tr> <tr> <td>Contai</td><td>...</td><td>20 0</td></tr> <tr> <td>Tumlook</td><td>...</td><td>13 14</td></tr> <tr> <td></td><td>Ghatal</td><td>14 8</td><td></td></tr> </table>		Sra. Ch.		} per rupee.	Sudder	...	18 0	Contai	...	20 0	Tumlook	...	13 14		Ghatal	14 8	
	Sra. Ch.		} per rupee.																	
Sudder	...	18 0																		
Contai	...	20 0																		
Tumlook	...	13 14																		
	Ghatal	14 8																		
5	Hooghly „ 31, '90	1.48	Weather—cool for the time of year. The rain has improved jute and sugarcane, and has been favourable for ploughing and sowing early rice. Prices of common rice:—																	
	Serampore ...	3.01																		
	Jehanabad ...	3.25	<table> <tr> <td></td><td>Sra.</td><td></td><td rowspan="3">} per rupee.</td></tr> <tr> <td>Sudder</td><td>...</td><td>13 or 14</td></tr> <tr> <td>Serampore</td><td>...</td><td>16</td></tr> <tr> <td></td><td>Jehanabad</td><td>16</td><td></td></tr> </table>		Sra.		} per rupee.	Sudder	...	13 or 14	Serampore	...	16		Jehanabad	16				
	Sra.		} per rupee.																	
Sudder	...	13 or 14																		
Serampore	...	16																		
	Jehanabad	16																		
	Howrah „ 31, '90	0.77	Weather—hot; occasional showers. Crops doing well and agricultural operations in progress in the Uluberia subdivision. More rain wanted elsewhere. Prices of common rice 14 to 15 seers per rupee.																	
	Uluberia ...	3.37																		
6	Central Districts.																			
7	24-Parganas May 31, '90	1.41	Weather—very hot. Sowing of early rice and jute finished, and the plants are thriving well. Prospects appear to be good. Prices stationary.																	
<i>Presidency Districts.</i>																				
8	Nadda „ 31, '90	2.79	Weather—seasonable. Sowings nearly completed. Rain beneficial to early rice.																	
	Kuchit ...	1.58																		
	Maherpore ...	1.35																		
	Chusacanga ...	0.99																		
	Ranaghat ...	0.94																		
9	Khoolna „ 31, '90	2.19	Weather—rainy. Land is being prepared for the sowing of amra. Aus is germinating. The heavy rain is said to have done some harm to jute in Nakhira.																	
	Bagirhat ...	4.58																		
	Satkhira ...	4.23																		
10	Jessore „ 31, '90	0.81	Weather—hot and cloudy with occasional showers. Sowings of both amra and aus nearly over; harvesting of bore completed. Prospects good. The recent rain has been very beneficial. Price of rice stationary.																	
	Jhenidah ...	1.18																		
	Magura ...	1.96																		
	Narail ...	2.21																		
	Bongong ...	3.40																		
11	Moorsheadabad „ 31, '90	0.14	Fine weather with passing clouds. Bhadoi is still being sown, but rain needed in the Sudder subdivision.																	
	Lalbagh ...	0.73																		
	Jungipore ...	0.15																		
	Kandi ...	1.40																		
12	Dinagpur „ 31, '90	1.75	Weather—variable. Bhadoi and sugarcane and most of the jute sowings completed. The area under these crops is larger than usual owing to the favourable rain. Prospects are good. Price of rice at Dinagpur 17 seers and at Thakurgaon 16 seers per rupee.																	
	Thakurgaon ...	0.63																		
13	Rajahmundry „ 31, '90	0.93	Weather—seasonable; very hot sometimes, notwithstanding occasional showers. The rain has done much good to the crops, which are all coming on very nicely.																	
	Nattora ...	3.50																		
	Nowgong ...	1.78																		
14	Kangpur „ 31, '90	1.06	Weather—constantly overclouded with frequent thunderstorms. A spell of sunshine and dry weather is needed to allow of the weeds being kept down. All crops look magnificent.																	
	Kurigram ...	0.53																		
	Gaitanda ...	1.75																		
	Nilphamari ...	1.44																		
15	Bogra „ 31, '90	2.27	Weather—changeable. Jute and aus rice growing well. Preparation for amra crop going on. Common rice selling at 18 seers per rupee.																	
	Sherpur ...	1.05																		
	Nowkhilla ...	3.28																		
16	Patna „ 31, '90	1.88	Weather—hot and cloudy. Mornings generally cool. Prospects of standing crops continue good. Planting of sugarcane is being pushed on vigorously. Jute has been sown on about 12 annas of the usual area. Transplanting of amra seedlings nearly completed. No change in prices.																	
17	Darjeeling „ 31, '90	1.77	Weather—fair. Sowing of bhadoi and jute in the Terai still continues. Land is being prepared for the transplanting of kaimati. Potatoes, chota morua, and bhadoi in the hills doing well.																	
18	Jalpigee „ 31, '90	2.31	Weather—hot and sometimes cloudy. Sowing of bhadoi and jute nearly completed. Prospects generally good. Price of rice continues stationary.																	

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—concluded.			
Eastern Districts.			
Dacca Div.	18 Dacca May 31, '90	3.87	Weather—mostly cloudy and hot. Jute and paddy thriving. Chillies being gathered. Rain has done much good to the standing crops. Fodder is available. Price of common rice 14 to 16 seers per rupee.
	19 Farredpur „ 31, '90	1.77	Weather—seasonable. State and prospects of all standing crops favourable. Price of common rice varies from 14 to 16 seers per rupee.
	20 Backergunge „ 31, '90	4.07	Weather—seasonable. Prospects of crops fair. Common rice selling at from 12 to 15 seers per rupee.
	21 Mymensingh „ 31, '90	3.57	Weather—rainy and seasonable. Crops doing well. Rice sells at 13 seers 10 chittacks per rupee.
Chittagong Div.	22 Chittagong „ 31, '90	1.07	Weather—seasonable. Sowing of <i>paisa</i> and paddy over; prospects good. <i>Lessa</i> worm has disappeared owing to recent rainfall. Price of common rice remains unchanged.
	23 Noakhally „ 31, '90	6.31	Weather—cloudy and rainy. Sowing of <i>aus</i> almost completed, and six annas of <i>aus</i> on average reported to have been sown. Price of rice stationary.
	24 Tipperah „ 31, '90	2.45	Weather—bright and hot at beginning of week; cloudy, wet, and cool at its close. <i>Aus</i> , <i>amra</i> , and jute doing well. Outturn of <i>boro</i> above 16 annas. Price stationary.
	25 Chittagong Hill Tracts.	...	Report not received.
BEHAR.			
Patna Div.	26 Patna „ 31, '90	0.90	Weather—very hot; occasionally cloudy. Preparation of lands for <i>bhadoi</i> and <i>agkani</i> sowings in full progress with the rainfall of the week. Harvesting of <i>cheena</i> will shortly commence. Mango a very good crop. Prices almost stationary.
	27 Gaya „ 31, '90	A few drops.	Weather—hot. Sugarcane doing well. Prices of food-grains almost stationary.
	28 Mchhabad „ 31, '90	1.08	Weather—hot and muggy. <i>Cheena</i> still being harvested. Prospects good.
	29 Buxar „ 31, '90	0.76	Weather—occasionally cloudy with east wind. Young plants of paddy, <i>cheena</i> , <i>janera</i> , and indigo doing well. <i>Mung</i> is being collected in places. Cultivation of lands for <i>bhadoi</i> sowings in progress. Prices almost stationary.
Rangoon Div.	30 Bhauganga „ 31, '90	Nil	Weather—unsifted; very close with easterly winds. Paddy, <i>cheena</i> , and <i>mung</i> in good condition. <i>Bhadoi</i> crops promising. Indigo prospects excellent.
	31 Saran „ 31, '90	1.99	Weather—very hot and sultry except when the rain fell. Indigo and <i>cheena</i> much benefited by the rain. Ploughing for rice and <i>bhadoi</i> everywhere going on.
	32 Champaran „ 31, '90	4.79	Weather—hot. Sowing of paddy and <i>bhadoi</i> in progress. <i>Cheena</i> and <i>kodo</i> growing well. Prices of food-grains rising to some extent.
	33 Mounsy „ 31, '90	1.06	Weather—very hot. The rain has done good, but more is wanted for sowing the <i>bhadoi</i> crops. Mango is very plentiful.
Rangoon Div.	34 Begusarai „ 31, '90	1.02	Weather—cloudy with some heavy showers. <i>Bhadoi</i> sowings in progress and seedlings coming up in places. Indigo, as well as paddy in low lands, sugarcane, and <i>mung</i> much benefited by rain, and agricultural prospects generally good.
	35 Purneah „ 31, '90	2.14	Weather—cloudy with showers and muggy weather. Prospects everywhere favourable owing to rain. Weeding of crops going on.
	36 Malda „ 31, '90	1.63	Weather—hot and cloudy. Showers throughout the district and the weather very changeable. Harvesting of <i>boro</i> paddy completed. Cultivation of <i>bhadoi</i> and <i>amra</i> paddy is being pushed on. The standing crops are benefited by the late rain. Common rice sells at from 13 to 19 seers per rupee.
	37 Sonthal Perga „ 31, '90	1.63	Weather—cloudy, rainy and cool. Ploughing going on. Sowing of <i>maka</i> and paddy has begun.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIV.	35 Cuttack May 31, '90	0.40	Weather—seasonable. Sowing of <i>arad</i> paddy has commenced. Gathering of tobacco over. Cotton is being gathered. Sugarcane doing well. Report not received.
	39 Poore .....	...
	40 Balasore „ 31, '90	4.11	Weather—cool for time of year. Season most favourable for cultivation. Number of coolies on relief-works 170.
CHOTA NAAGPORE.			
<i>South-West Frontier Agency.</i>			
CHOTA NAAGPORE DIV.	41 Hazaribagh May 31, '90	0.60	Weather—seasonable; rather unsettled latterly. Sugarcane doing well. Mango injured in places by high winds. Lands being ploughed everywhere. Rice selling at from 14 to 20 seers per rupee.
	42 Lohardugga „ 31, '90	1.16	
	Palamow (up to 20th) ...	0.02	Weather—very stormy; showers on three days at head-quarters, but heavy rain in the interior. Sowing of the paddy crops is in full swing all over the district. Sugarcane thriving. A full crop of cotton has been gathered. Price of rice at Chybassa 18 seers per rupee.
	43 Singhbhum May 31, '90	0.34	
CHOTA NAAGPORE DIV.	44 Manbhoom „ 31, '90	1.01	Weather—hot and cloudy. Heavy rain, which fell on Thursday (29th) afternoon, has facilitated ploughing. In a few places paddy is being sown. More rain would be beneficial. Rice selling at from 18 to 24 seers per rupee.
	Govindpore	0.11	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 3rd June, 1890.P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.			STATION OBSERVATIONS.												
District.	Representative station.	AIR PRESSURE.			WIND.		TEMPERATURE.								
		Mean barometric height, 5 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature.	Mean daily temperature.	Variation from normal mean of week.	Mean 5 A.M. temperature.
OAHIA.	Pooree	29.624	29.636	—	NW	377	91.7	30th May	79.1	28th May	80.4	85.2	80.5	—	84.1
	Gopapore	29.627	29.639	—0.012	SW	429	90.2	29th	79.1	28th	80.4	85.2	80.5	+0.1	84.1
	Palma Point	29.626	29.637	—0.011	S	309	92.5	29th	78.1	27th	81.6	86.0	80.8	+1.0	84.1
SOUTH-WEST BENGAL.	Outlack	29.598	29.649	—0.051	S & SE	189	101.9	27th	78.3	28th	80.6	81.0	80.3	—0.3	87.0
	Balnore	29.594	29.638	—0.044	SW	97.2	97.8	29th	78.3	30th	80.1	77.1	85.6	—0.5	86.3
	South-West Midnapore	29.635	29.651	—0.016	Variable	208	98.7	27th	78.3	28th	80.7	78.1	85.4	+1.4	86.3
SOUTH-WEST BENGAL.	Midnapore	29.611	29.632	—0.021	S	203.8	98.8	24th	78.3	26th	80.0	76.1	80.1	—3.0	83.6
	24-Pergunnahs	29.645	29.667	—0.022	Variable	123	96.0	24th	71.3	26th	82.9	78.8	84.2	+1.9	82.3
	Howrah	29.648	29.665	—0.017	South-Easterly	123	96.7	25th	76.4	26th	81.3	77.8	80.6	—2.8	81.8
SOUTH-WEST BENGAL.	Hooghly	29.634	29.633	—0.001	Variable	140	100.1	23th	69.0	30th	80.5	75.8	80.6	—	81.8
	Burdwan	29.636	29.648	—0.012	Variable	123	100.0	24th	71.9	25th	80.1	76.9	80.5	—3.9	83.9
	West Burdwan	29.634	29.641	—0.007	E	100.9	99.7	24th	71.8	28th	81.0	76.3	80.8	—1.8	79.9
SOUTH-WEST BENGAL.	Mooredabad	29.613	29.621	—0.008	ESE	137.7	97.9	24th	73.3	26th	83.4	78.6	81.6	—2.8	81.1
	Nuddea	29.642	29.670	—0.028	Variable	81.7	96.8	24th	78.4	24th & 25th May	83.2	76.6	84.9	+1.8	81.6
	Jessore	29.619	29.708	—0.089	SW	120	98.2	24th	76.0	30th	80.4	76.6	83.0	+0.9	81.6
SOUTH-WEST BENGAL.	Chittagong	29.609	29.702	—0.093	Calm	88.9	96.3	23th	78.9	29th	81.0	76.1	83.9	—0.1	83.2
	Chittagong Hill Tracts	29.670	29.714	—0.044	Variable	128	98.9	24th, 25th May	78.9	26th	80.2	76.0	82.1	—1.6	81.9
	Baerhange	29.655	29.688	—0.033	South-Easterly	98	94.5	24th	76.9	25th, 26th May	80.1	76.5	82.5	—1.7	80.9
SOUTH-WEST BENGAL.	Dacca	29.619	29.682	—0.063	Variable	134.3	94.1	25th	73.3	25th, 26th May	80.9	75.4	82.7	—1.5	81.3
	Commatal	29.651	29.687	—0.036	E & S	171.8	94.3	24th	78.9	26th	80.7	76.1	82.4	—1.3	81.3
	Mymensingh	29.641	29.702	—0.061	ENE	112.2	93.7	24th	71.6	25th	80.5	76.8	82.1	—	80.6
SOUTH-WEST BENGAL.	Bogra	29.689	29.711	—0.022	ENE	129.0	98.5	26th	71.6	28th	87.0	76.7	81.7	—0.7	80.3
	Pabna	29.689	29.676	—0.013	E	105.1	98.5	24th	72.7	25th	80.3	76.5	82.3	—1.4	80.5
	Rajshahye	29.607	29.677	—0.070	South-Easterly	90.7	94.5	24th	76.0	26th	81.3	76.6	84.0	—1.7	81.3
SOUTH-WEST BENGAL.	Maldah	29.599	29.680	—0.081	E	77.0	98.6	24th	70.4	26th	80.4	75.7	83.7	—	81.4
	Dinapore	29.581	29.682	—0.101	E	63.6	94.1	24th	74.1	24th, 25th May	80.7	76.7	82.7	—0.6	80.2
	Kungpor	29.683	29.706	—0.023	E	82.6	95.8	24th	73.5	26th	80.2	76.1	83.7	—1.0	80.9
SOUTH-WEST BENGAL.	Julpigoree	29.609	29.687	—0.078	?	?	91.9	24th, 25th May	71.1	24th, 25th May	80.2	78.8	81.5	+1.1	80.6
	Cooch Behar	29.609	29.687	—0.078	?	?	91.9	24th, 25th May	71.1	24th, 25th May	80.2	78.8	81.5	+1.1	80.6
	Darjeeling Hill Tracts	29.686	—	—0.112	Variable	87.3	93.6	24th, 25th May	82.1	24th	84.0	83.6	83.8	+0.4	84.3
SOUTH-WEST BENGAL.	Furneah	29.626	29.686	—0.060	ENE	107.8	96.7	24th	70.9	26th	83.5	76.2	83.4	—7.1	81.2
	North Bhargulpore	29.640	29.656	—0.016	ENE	237.4	100.9	24th, 25th May	73.9	25th	80.0	79.0	87.4	0	81.0
	Moorfepore	29.686	29.688	—0.002	ENE	159.4	100.4	24th, 25th May	?	?	85.9	?	?	?	80.8
SOUTH-WEST BENGAL.	Durbhanga	29.634	29.663	—0.029	ENE	227.3	99.1	24th, 25th May	71.6	26th	84.3	76.2	83.2	—1.3	81.7
	Chomperan	29.634	29.658	—0.024	E	189.3	102.3	23th, 24th May	70.5	27th	85.0	77.1	80.4	—8.3	83.6
	Chupra	29.626	29.660	—0.034	E	154.5	110.4	24th	75.0	24, 27	100.2	74.4	81.3	+0.7	80.7
SOUTH-WEST BENGAL.	Shahabad	29.611	29.665	—0.054	ENE	77.6	105.4	24th	69.7	27th	87.7	76.4	83.1	—0.0	81.0
	Gya	29.640	29.619	—0.021	ENE	178.0	100.1	24th	4.8	27th	100.0	69.9	85.4	+1.6	80.3
	Patna	29.646	29.624	—0.022	E	103.4	103.5	24th	71.2	27th	84.0	77.4	82.7	—0.3	82.9
SOUTH-WEST BENGAL.	South Bhargulpore	29.628	29.628	—0.000	E	99.7	100.8	24th	71.0	27th	82.4	76.2	83.8	—3.8	80.5
	Monghyr	29.628	29.628	—0.000	E	99.7	100.8	24th	71.0	27th	82.4	76.2	83.8	—3.8	80.5
	South Bhargulpore	29.628	29.628	—0.000	E	99.7	100.8	24th	71.0	27th	82.4	76.2	83.8	—3.8	80.5
SOUTH-WEST BENGAL.	Boonaa	29.613	29.641	—0.028	Variable	167.6	101.7	24th & 25th May	69.5	25th	80.3	76.0	84.4	—4.4	81.3
	Hazribagh	29.640	29.631	—0.009	Variable	265.2	104.8	24th	69.3	25th	80.3	76.1	87.3	+0.7	81.9
	Ichandurga	29.640	29.639	—0.001	South-Westerly	180.3	100.0	24th	70.6	30th	87.4	78.3	85.3	—1.6	81.3
SOUTH-WEST BENGAL.	Manihouan	29.640	29.639	—0.001	South-Westerly	180.3	100.0	24th	70.6	30th	87.4	78.3	85.3	—1.6	81.3
	Shahaboom	29.640	29.639	—0.001	South-Westerly	180.3	100.0	24th	70.6	30th	87.4	78.3	85.3	—1.6	81.3
	Bibnagar	29.601	29.737	—0.136	Variable	94.1	24th	76.0	27th	80.2	76.0	83.1	+1.9	79.3	
SOUTH-WEST BENGAL.	Dhubri	29.677	29.694	—0.017	NE, ENE	117.3	98.2	24th	78.3	25th	80.3	76.9	82.0	+1.2	80.9
	Milchar	29.686	29.714	—0.028	Calm	83.5	24th	72.5	26th	81.3	76.8	82.1	+0.7	79.3	

Explanation.—Summary.—The normal means of air pressure, air temperature, and humidity are the arithmetic averages or means of the reading during the same period for the last ten years. The humidity of the atmosphere is expressed as percentage saturation and being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numbers are the number of hours of average of rainfall in that district determined from the records sent in by the subdivided station for the period in question during the past sixteen to the district sending it returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

						DISTRICT OBSERVATIONS.								
						RAINFALL.								
Average humidity at 9 A.M.	Average cloud amount at 9 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		Since 1st of month.			Since 15th May 1880.			Average number of rainy days.	Normal number of rainy days.	Representative station.	District.
			Mean for district.	Normal mean.	Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.				
87	77	0.47		1.2			2.93			1.60		16	Pooree	Pooree
87	81	0.27												
86	77	0.66												
86	74	0.21		1.29			3.36			1.91		21	Cuttack	Cuttack
79	64	0.41	2.13	1.46	2.08	4.00	+0.39	4.10	2.40	+1.70	4.0	20	Balasore	Balasore
84	61	1.18	1.69	1.31	2.42	4.70	+2.72	6.97	2.17	+6.20	4.0	23	Nagpur Island	South-West Midnapore South 24-Pergunnahs
70	23	1.64	2.63	1.17	6.51	4.97	+1.54	6.29	1.91	+6.29	3.0	21	Midnapore	Midnapore
61	77	1.38	2.80	1.69	6.06	6.56	+0.50	6.63	2.54	+3.11	2.7	27	Calcutta	24-Pergunnahs Howrah Hooghly
79	91	0.89	1.18	1.08	3.16	4.97	-1.81	2.83	2.55	+0.24	2.0	12	Hurdwan	Hurdwan
61	44	2.00	2.61	1.18	4.06	3.38	+0.47	4.03	1.89	+2.16	2.8	73	Bankoor	Bankoor
79	49	1.68	1.20	1.00	1.87	3.26	-1.39	1.77	1.82	-0.05	2.4	23	Kanungunge	Meerbhoom West Hurdwan
95	90	0.14	0.72	1.09	3.30	3.03	-1.73	2.34	2.92	-0.34	2.0	24	Mohampore	Moorshedabad
88	79	2.56	1.63	2.07	4.38	6.14	-1.76	3.67	3.31	+0.36	3.0	26	Krishnachur	Nuddea
85	74	0.89	2.59	1.90	6.11	4.09	-0.28	4.66	2.13	+1.45	3.1	30	Jessore	Jessore Khoulia
82	70	1.30	1.66	2.69	3.72	9.57	-5.63	3.29	4.62	-1.63	3.3	28	Chittagong	Chittagong
			4.67	2.10	8.63	9.14	-0.51	6.00	3.63	+2.21	0.0	33	Dumagiri	Chittagong Hill Tracts
73	69	4.09	3.81	2.22	6.34	7.43	-1.09	6.43	3.64	+2.39	3.3	31	Barrisal	Backergunge
84	30	4.08	4.30	2.40	3.40	9.93	-1.46	3.85	4.30	+1.55	4.5	24	Noakholly	Noakholly
80	66	0.39	1.07	2.04	3.07	3.35	-2.98	3.30	4.06	-0.88	3.7	30	Farreedpore	Farreedpore
69	61	3.11	4.20	2.18	3.76	6.54	+0.24	6.10	3.73	+2.44	4.0	31	Dacca	Dacca
73	66	2.33	3.17	2.97	9.10	9.73	-0.63	4.63	3.85	+0.78	3.8	34	Comillah	Tippurah
80	71	4.01	3.37	2.14	9.78	9.33	+0.38	3.80	4.61	+1.30	3.6	32	Mymensingh	Mymensingh
87	77	2.27	1.63	2.50	6.80	7.43	1.43	3.91	4.70	-0.26	2.5	30	Bogra	Bogra
87	61	2.21	1.64	3.42	6.06	6.92	-0.84	4.37	3.64	+0.63	2.0	26	Sorajungce	Fubna
86	21	0.97	3.07	2.16	3.64	3.60	+0.04	4.62	3.23	+1.39	2.7	26	Rampore Bhanish	Rajahabye
86	27	1.03	1.30	1.23	4.66	4.24	+0.41	2.42	2.36	-0.14	2.3	20	Maldah	Maldah
85	46	0.97	1.76	2.92	6.08	3.86	+0.47	3.97	3.63	-0.36	2.0	26	Dinapore	Dinapore
80	23	0.71	1.63	3.39	6.47	10.71	-2.24	4.02	6.67	-2.65	3.3	32	Rangpore	Rangpore
83	14	2.10	2.22	4.34	7.20	12.31	-5.31	3.98	3.16	-5.08	5.6	26	Julpigroee	Julpigroee Cooch Behar
86	79	.77	1.93	2.83	6.48	10.47	-3.89	3.61	6.37	-2.86	3.8	42	Darjeeling	Darjeeling Hill Tracts

ten years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater. Including cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means for 17 years. The means of the district are the unweighted average of the rainfall returns received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 30th of May 1890.

[illegible]

statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 30th of May 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 18th May 1900.	Average rainfall from 18th May to date.
			Saturday, 24th May.	Sunday, 25th May.	Monday, 26th May.	Tuesday, 27th May.	Wednesday, 28th May.	Thursday, 29th May.	Friday, 30th May.	Number of rainy days.	of Rainfall week.				
EAST BENGAL -continued.	Noakhally	Gournadi ..	1.03	0.46	1.00	1.30	4	3.79	7.00	?	0.74	?
		Noakhally	0.23	0.22	0.33	0.35	0.08	8	2.09	8.65	0.23	0.26	4.26
		Fenny	0.71	0.30	0.33	0.40	0.15	4	0.61	8.31	0.26	0.31	4.21
		Ramganj	0.65	1.02	1.00	3	2.62	6.36	0.66	?
		Farraedpore	0.70	0.40	2	3.79	5.72	0.18	4.87	4.7
		Goalundo ..	0.50	0.03	0.20	0.04	0.15	3	1.44	5.17	0.04	3.06	0.3
	Dacca	Munshiganj	1.72	1.17	2.21	0.51	4	5.62	9.08	0.08	0.89	3.05
		Dacca	1.45	0.08	1.42	0.02	4	3.47	10.55	0.05	0.92	3.91
		Narainkumbh	2.01	0.14	0.02	0.02	4	5.46	9.51	0.02	0.94	3.35
		Manickchun	0.78	0.16	2.04	0.04	4	3.04	8.54	0.14	0.62	3.02
		Joydebpore	1.10	0.55	2.21	0.41	4	4.2	10.40	?	0.75	?
		Hill Tipperah	Amartala	4.14	0.20	2	4.04	11.92	10.20	0.36	3.62
	Tipperah	Gomilla	0.07	0.08	0.14	0.04	1.2	2	2.45	9.87	0.07	4.07	4.07
		Chandpore	0.70	0.33	0.33	2.10	0.06	4	4.06	8.07	0.31	2.95	2.95
		Rahmunbaria	0.11	0.05	0.70	0.31	1.00	3	2.17	9.19	10.24	3.79	0.60
		Romchandra	0.19	0.10	0.02	1.07	0.33	0.03	6	2.84	9.03	?	0.70	?
		pore	0.50	0.05	1.15	1.10	4	2.70	12.04	?	0.15	?
		Deandandi	0.50	0.22	0.25	3	1.37	4.47	?	0.60	?
	Mymensingh	Kocho	0.08	0.20	2.00	1.0	0.40	5	3.00	12.36	?	4.05	?
		Lohak	1.05	0.00	2.40	0.00	4	4.80	?	?	?	?
		Kishoreganj	1.04	1.07	0.5	0.33	0.00	3	3.10	10.15	0.70	0.14	4.81
		Atia (Tangaila)	0.60	3.0	0.18	3	4.05	10.26	6.91	7.43	3.66
		Mymensingh	1.02	0.22	1.0	0.43	0.04	3	3.57	9.93	10.20	0.63	3.63
		Jamulpore	0.80	2.5	2	3.23	9.01	0.80	0.61	3.08
Mymensingh	Netrakona ..	.....	.....	.....	.....	2.00	0.16	0.71	3	2.85	8.11	10.25	0.11	0.46
	Saturnakhatia ..	.....	1.20	.....	.....	1.70	.....	1.0	3	4.10	7.06	?	?	?
	Dargapore ..	.....	0.70	.....	.....	0.60	.....	.....	1	1.00	7.08	?	?	?
	Sherepore Town	.....	1.20	.....	.....	.....	1.10	0.00	4	4.25	11.00	?	0.64	?
	Deওয়ান্জ	.....	.....	.....	.....	2.60	.....	.....	.....	.....	.....	.....	.....	.....
	
NORTH BENGAL	Palna	Palna ..	.....	0.75	.....	.....	0.25	.....	2	1.00	3.94	6.74	2.61	2.65
		Saratganj ..	.....	0.38	.....	.....	1.75	.....	2	2.28	5.25	7.10	3.02	3.83
		Sherepore ..	.....	0.03	.....	0.31	0.8	.....	3	1.61	4.22	8.17	3.21	4.76
	Rangpur	Nowkhilla ..	.....	0.24	.....	.....	2.04	.....	2	2.24	9.73	6.45	0.39	3.26
		Moria ..	.....	0.74	.....	0.9	1.05	.....	3	2.14	4.02	8.4	3.70	4.36
		Pachhhibi ..	.....	0.0	.....	.....	0.0	.....	3	0.5	5.37	7.00	3.33	0.20
Malajukhy	Banahak ..	0.17	0.09	.....	.....	0.7	.....	3	0.9	3.46	5.13	0.28	2.94	
	Nattor ..	.....	0.35	.....	.....	3.78	.....	3	3.6	7.38	6.66	0.80	3.4	
	Naogaon ..	.....	0.55	.....	0.33	0.0	.....	3	1.75	6.13	4.97	3.63	3.43	
Malda	Lalpara ..	.....	0.24	.....	0.00	.....	.....	0.30	3	1.30	4.66	?	2.81	?
	Manda ..	.....	1.20	.....	0.14	0.5	.....	3	1.91	3.82	?	1.94	?	
	Malda ..	0.19	0.03	.....	.....	1.08	.....	3	1.63	4.72	3.81	3.25	2.21	
	Chanchal ..	.....	0.14	.....	.....	0.6	.....	2	0.98	6.55	4.60	1.00	2.60	
	Gajni ..	.....	0.20	.....	.....	0.5	.....	1	0.70	3.47	2.05	?	?	
	Sidanganj ..	.....	.....	.....	.....	0.1	.....	1	0.16	5.48	4.44	?	?	
Dinajpur	Mohadelpore ..	.....	1.18	.....	0.02	0.0	.....	0.13	4	2.86	5.00	0.60	2.89	3.11
	Churamon ..	.....	.....	.....	.....	1.10	.....	.....	1	1.10	8.13	6.03	2.04	2.43
	Naigunze ..	.....	.....	.....	0.78	.....	0.81	.....	2	1.59	4.40	0.90	2.74	0.41
	Dinajpur ..	0.11	0.07	.....	0.35	0.0	.....	.....	1	1.01	3.24	0.75	5.00	0.31
	Maloonchal ..	.....	.....	.....	0.10	1.25	.....	.....	3	1.45	6.16	0.37	0.83	4.70
	Thakurgaon ..	.....	.....	.....	0.34	0.36	.....	.....	2	0.62	9.43	?	1.80	?
Rangpur	Banwaniganj ..	.....	1.55	.....	.....	0.30	.....	0.70	3	2.63	10.44	0.34	0.22	0.91
	(Oyabanda) ..	.....	.....	.....	.....	0.00	.....	.....	.....	.....	.....	.....	.....	.....
	Rangpur ..	0.04	0.14	.....	0.02	0.07	0.14	.....	3	1.61	8.74	9.95	2.87	0.08
	Kuriganj ..	0.08	0.03	.....	.....	.....	.....	0.08	3	1.29	6.94	13.29	3.24	7.08
	Radwara ..	0.37	.....	.....	0.07	.....	.....	.....	2	1.44	7.75	11.23	5.63	3.01
	(Nilphamari) ..	0.28	.....	0.02	1.29	.....	.....	.....	3	2.80	12.00	?	7.31	?
Jalpaiguri	Jalpaiguri ..	1.11	0.01	.....	0.10	.....	0.20	0.11	5	3.21	6.64	11.37	2.32	7.03
	Alipore Doorg ..	.....	0.29	0.08	0.20	1.20	0.03	0.15	6	3.11	6.37	?	3.20	?
	Pallaotta ..	.....	0.20	0.05	0.24	0.30	.....	0.23	5	1.17	4.72	?	2.13	?
	Dahiganj ..	.....	.....	.....	1.61	0.65	.....	.....	2	2.06	9.71	?	7.01	?
	Bhagatpore ..	1.14	0.20	.....	0.12	.....	0.34	0.47	4	2.88	9.74	?	6.82	?
	(Nayakhatia) ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cooch Behar	Dumhati ..	0.20	0.51	0.02	0.04	0.11	.....	0.11	6	1.16	6.40	13.90	2.46	0.93
	Cooch Behar ..	0.03	0.15	0.01	0.45	0.16	1.20	1.12	7	2.17	6.08	14.30	3.46	0.45	
	Mishiganj ..	1.00	0.20	.....	0.07	.....	0.75	0.01	6	2.04	9.78	11.69	3.91	0.08
	Mashiganj ..	.....	0.40	0.10	0.20	0.20	0.76	0.74	8	2.40	7.14	12.16	3.14	0.36
	Muz ..	.....	0.17	0.01	0.18	1.14	0.04	0.05	6	1.97	7.00	20.01	3.38	13.37
	Barjail ..	.....	.....	.....	0.57	.....	.....	.....	2	3.71	9.45	8.90	2.00	0.45
Darjeeling Hill	Siliguri ..	0.04	0.01	0.07	0.11	0.31	0.38	0.53	7	1.77	6.08	8.25	0.10	4.14	
	Darjeeling ..	.....	.....	.....	0.13	0.13	0.13	.....	1	0.23	2.42	5.34	3.52	0.47
	Kalimpong ..	0.03	0.70	0.20	1.45	0.17	0.55	0.05	7	3.16	9.98	?	1.05	2.47	
	Kurseong ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	
	
NORTH BENGAL	Purnea	Kisanganj ..	0.12	.....	.....	.....	.....	.....	1	0.12	3.46	8.44	0.00	3.46
		Arrah ..	0.72	0.19	2	0.91	3.07	5.45	3.13	3.03
		Purnea	1.03	1	1.03	3.84	3.97	2.43	2.43
	North 24 Parganas	Gondwara	0.60	1	0.60	?	?	?	?
		Salarampore
		Motari	0.84	1	0.84	1.74	?	1.74	?
Durbhanga	Kaliaganj ..	0.15	0.25	.....	.....	.....	.....	.....	2	0.40	4.65	?	?	?
	Maddanpore ..	.....	.....	.....	0.13	.....	.....	.....	1	1.15	2.90	5.90	1.20	?
	Noopool ..	.....	.....	.....	0.31	.....	.....	.....	1	0.37	1.15	2.90	1.20	?
Measuria	Pratapganj ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.08	?	0.30	?
	Tajpore ..	.....	.....	.....	0.25	.....	.....	.....	1	0.25	1.48	2.28	0.00	1.09
	Durbhanga ..	.....	.....	.....	0.05	.....	.....	.....	Nil	Nil	2.30	2.40	1.33	1.24
	Madhubani ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.16	2.06	1.33	1.24
	Nahore ..	.....	.....	.....	0.25	.....	.....	.....	1	0.25	2.35	?	0.21	?
	Kochera ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.70	?	Nil	?
Measuria	Bitamathi ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.40	2.61	1.79	1.04
	Measuria ..	.....	.....	.....	0.14	.....	.....	.....	2	0.14	1.45	2.73	0.00	1.43
	Hali ..	.....	.....	.....	1.43	.....	.....	.....	1	1.43	3.60	1.90	2.08	1.22
	Pore ..	.....	.....	.....	.....	.....	.....	.....	1	0.05	1.05	?	0.05	?
	Nahar ..	.....	.....	.....	0.51	.....	.....	.....	1	0.51	0.53	?	0.03	?
	Puri ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.23	?	0.81	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 30th of May 1890—concl.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 24th May.	Sunday, 25th May.	Monday, 26th May.	Tuesday, 27th May.	Wednesday, 28th May.	Thursday, 29th May.	Friday, 30th May.	Number of rainy days.	of Rainfall week.				
NORTH BENGAL—concluded.	Chumpran.	Mothari	0.00	0.00	0.00	0.74	0.00	0.00	0.00	2	0.74	1.00	0.51	0.00	1.00
		Bethish	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00
		Begula	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00
		Burkharoo	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00
SOUTH BENGAL	Saran.	Gopalkunda	0.00	0.00	0.00	1.00	0.00	0.00	0.00	2	1.00	1.00	0.50	0.00	1.00
		Saran	0.00	0.00	0.00	1.19	0.00	0.00	0.00	2	1.19	1.19	0.59	0.00	1.19
		Chuprah	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1	1.00	1.00	0.50	0.00	1.00
		Buxar	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1	1.00	1.00	0.50	0.00	1.00
	Shahabad.	Dohree	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	0.00	0.00	0.00	0.00
		Bhabooah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	0.00	0.00	0.00	0.00
		Sameran	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	0.00	0.00	0.00	0.00
		Arrah	0.00	0.00	0.00	1.00	0.00	0.00	0.00	2	1.00	1.00	0.50	0.00	1.00
	Gya.	Mohaniah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	0.00	0.00	0.00	0.00
		Arungabad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Gya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Nowadah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
	Patna.	Jehanabad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Arwal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Daudnagar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	0.00	0.00	0.00	0.00
		Sherrghati	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	0.00	0.00	0.00	0.00
	Bihar.	Bajauli	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Patri Baransa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Patna	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Dimpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
	Mooghyr.	Rohar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Barth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Bickram	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
	South Bhagalpore.	Bogomara	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Monohyr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Jamui	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Gogri	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
	South Bhagalpore.	Shahpura	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Bhagalpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	0.00	0.00	0.00
		Banka	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	0.00	0.00	0.00
		Kolgong	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	0.00	0.00	0.00
	Sonthal Pargannahs.	Bangson	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	0.00	0.00	0.00
		Rajmohal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Godda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Pakour	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
	Churia Nag-P.H.	Nya Doonka	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Doonka	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Jamtara	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Mohaguma	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
	Kharibagh.	Namhai	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Pachamba	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		(Girid).	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Kharibagh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
	Lohardugga.	Bomtarah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Mahudi Hill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NH	NH	0.00	0.00	0.00	0.00
		Jhoomra Hill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Berhi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
	Singbhoon.	Chakra	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Karagaha	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Ranghar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Chakra	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
	Mantbhoon.	Chakra	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Chakra	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Chakra	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
		Chakra	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00

Explanation.— indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding space in the total rainfall column is left blank.

CALCUTTA, the 3rd June, 1890.

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-
TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE
30TH OF MAY 1890.**

The general character of the weather during the present week is very similar to that of the preceding one, easterly or south-easterly winds with cloudy skies and frequent showers prevailing throughout the week. Pressure has been almost always below the normal, a low-pressure area continuing with very little change to the west of the province, and hence causing the almost uninterrupted indraught from east to west, to which is due the more than usually moist air in the western districts. As stated last week, there is towards the end of May a larger proportion of moisture in the air over East and North Bengal than in the early months of the hot weather, and this has been displaced in consequence of the easterly winds, a smaller proportion of rain falling in North Bengal, while in most of the western districts the rainfall has been above the normal. In the early part of the week, the change for the better, that had set in at the end of the last week, lasted for one or two days only. Pressure continued to fall briskly for the first two days, and easterly winds recommencing, showers were frequent on Sunday and Monday in all districts except Behar. On Monday the 26th, gradients were steeper from east to west than on any other day of the week, and though pressure was changing more slowly, the rise in the eastern districts and the fall in Behar and Chutia Nagpur was causing increased difference of pressure over the province. On Tuesday rainfall was very scattered in the lower districts, but was much more general in North Bengal and Behar, and frequently heavy in the latter. After this, pressure rose in Behar and fell in the east, so that greater uniformity prevailed, and wind velocity, which had been increasing while the gradients were steep, fell off considerably in all districts, and the scattered showers were chiefly confined to East Bengal and parts of South-West and North Bengal. Temperature in consequence of the continued cloudy weather has been lower than is usual at this season of the year, and changed rapidly but irregularly as the area of rainfall changed. The largest difference from the normal was in Behar on Tuesday when the heavy showers fell there. At the end of the week unsettled conditions appeared to be developing over the Bay: wind velocity fell off at the head of the Bay and increased at Diamond Island, but, though the rough sea reported from Burmah and Orissa showed that squally weather was beginning somewhere in the Bay, it died away without otherwise affecting the coast.

Pressure—Has been falling on five days out of the seven, but changes being generally small, the difference from the normal has never been greater than a tenth of an inch. The difference of pressure from west to east in the middle of the week was two-tenths of an inch, but this arrangement was for one day only. On the last day, the 30th, very uniform pressure prevailed, the greatest difference between the extreme east and west not exceeding a twentieth of an inch. The mean pressure for the week is everywhere below the normal, defect being largest in Assam, and exceeding a twentieth of an inch at Silchar and Dhubri. It is least in North Behar and the west of South-West Bengal, and in the other districts averages about three-hundredths of an inch.

Temperature—Has been below the normal in all districts except Assam, where there is excess of more than 1°. Defect is largest in North Behar, amounting to 3°, and in South Behar and South-West Bengal is over 2°, but elsewhere it is under 1°; 0·9° in Orissa, 0·8° in East Bengal, 0·4° in Chutia Nagpur, and 0·3° in North Bengal. Changes have at times been very large, but generally irregular, depending on the rainfall at the various stations. The most rapid were in Behar on Wednesday, when there was a general fall of over 5° and a defect in some cases exceeding 10°. This was followed by a rise of about 5° on each of the two following days, and by the end of the week the distribution did not differ much from the normal.

Rainfall—Was general in all districts, except Behar, on Sunday and Monday, and again on Wednesday in Orissa, South-West and East Bengal. Heavy rain fell in Behar on Tuesday and in Chutia Nagpur on Friday. The rainfall distribution has, therefore, been irregular, but from the occasional heavy falls, the means for the week have as a rule been very nearly normal or above it. In North Bengal only there has been a considerable defect, as last week, the easterly winds having carried the moisture more to the westward than is usual at this season of the year. The defect in North Bengal is 1 inch, in Chutia Nagpur nearly half an inch, while the fall in North Behar is practically normal and slightly in excess in the other districts except East Bengal, where it is very nearly 1 inch. Some of the heaviest falls are—Balasore 4 inches, Satkhira, Bagirhat, and Nakipore, between 4 and 5 inches, Burisal 4 inches, Fenny 4·6 inches, Naraingunge and Munshigunge 5·5 inches, Chumparun 4·8 inches, and Barrabhoom 3·3 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 30th of May 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.								
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	101°9	72°1	86°7	79°9	86°5	-0°9	1°46	1°35	+0°11	3°0	1°9	+1°1	3°30	3°70	3°28	3°08
South-West Bengal	105°0	69°6	84°6	76°5	83°5	-2°3	1°75	1°33	+0°42	3°3	3°3	+0°3	4°70	4°20	6°10	3°10
East Bengal	95°3	71°6	82°9	76°0	82°3	-0°9	3°34	3°37	+0°07	3°3	3°1	+0°2	7°20	6°30	5°10	4°00
North Bengal*	96°6	70°4	80°1	75°3	82°7	-0°3	1°75	1°33	-1°04	3°3	3°0	+0°3	5°40	6°00	3°65	3°01
North Bihar	102°3	70°7	84°5	78°6	80°6	-3°0	1°00	1°01	-0°01	1°3	1°3	0	3°04	3°07	1°07	1°73
South Bihar*	110°4	63°3	80°6	77°7	80°1	-2°3	1°01	0°34	+0°67	1°3	1°3	+0°4	3°34	3°37	1°00	1°47
Chittagong	104°3	69°3	80°4	74°3	83°3	-0°4	0°35	1°11	-0°76	3°0	1°9	+0°1	1°36	3°37	1°37	1°04
Assam	94°1	72°3	80°9	75°5	82°9	+1°3										

* Chybam not included.

METEOROLOGICAL OFFICE, BENGAL;

The 3rd June 1890.

O. LITTLE,

Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 25th to 31st May 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.					HYGROMETRY.				Rainfall per 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
May 1890 ...	25th ...	29·647	84·3	94·5	20·5	74·0	89·1	83·3	1·063	81·1	77	0·57
" "	26th ...	29·667	83·2	94·0	21·7	72·3	88·4	80·9	·982	78·7	78	0·50
" "	27th ...	29·673	83·1	95·0	17·8	77·2	89·6	83·0	1·041	80·5	76	...
" "	28th ...	29·645	83·6	92·5	17·9	74·6	85·6	79·3	·917	76·6	75	...
" "	29th ...	29·608	86·7	93·0	12·7	80·3	86·6	82·5	1·067	80·3	84	...
" "	30th ...	29·645	86·3	96·0	19·4	76·6	88·6	82·5	1·080	80·1	77	...
" "	31st ...	29·602	89·0	98·0	14·1	81·9	91·6	83·1	1·019	79·8	69	...

The mean 10 A.M. pressure of the seven days Inches. 29·641

The mean temperature of the seven days 85·8

The extreme variation of temperature 23·7

The maximum temperature 98·0

The mean 10 A.M. relative humidity of the seven days % 76

The total fall of rain from 25th to 31st May 1890 Inches. 1·07

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;

The 2nd June 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from
25th to 31st May 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 55° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
May	25th	153.7	5.5	29.694	83.6	93.3	21.1	72.2	78.7	0.923	76.8	80	Variable	151	0.96	Chiefly cloudy, c, d, p.
"	26th	144.5	5.1	29.691	84.1	92.3	20.6	71.7	79.2	0.930	77.3	80	SSW and variable	183	0.03	Chiefly cloudy, c, d.
"	27th	145.5	4.7	29.685	83.7	92.7	19.5	76.2	78.7	0.919	76.7	80	SE by E and variable.	115	0.29	Chiefly cloudy, c, g, t, d, p.
"	28th	147.5	1.3	29.684	83.9	91.5	17.9	73.6	78.8	0.920	76.7	79	Variable	77	0.01	Chiefly cloudy, c, d.
"	29th	146.1	0.9	29.667	84.4	91.6	11.9	79.7	80.1	0.973	78.4	83	ENE and variable	76	0.01	Cloudy, c, t, d.
"	30th	152.5	3.3	29.685	85.1	93.5	18.1	75.4	80.3	0.974	78.4	81	SW and SSW	140	Nil	Chiefly cloudy,
"	31st	145.5	2.4	29.647	87.3	93.6	12.2	81.4	80.3	0.941	77.4	72	S by E, SSW and SSE.	168	"	Chiefly cloudy, c.

The mean pressure of the seven days ...

The average pressure of the corresponding period for 24 years, S.-G.'s Office ...

The total number of hours of bright sunshine ...

The maximum possible number of hours of sunshine ...

The mean temperature of the seven days ...

The average temperature of the corresponding period for 24 years, S.-G.'s Office ...

The extreme variation of temperature ...

The maximum temperature ...

The highest velocity of the wind in one hour ...

The highest pressure of wind on one square foot ...

The mean relative humidity ...

The average relative humidity of the corresponding period for 24 years, S.-G.'s Office ...

The total fall of rain from 25th to 31st May 1890 ...

The average fall of the corresponding period for 24 years, S.-G.'s Office ...

The total fall from 1st January to 31st May 1890 ...

The average fall of the corresponding period for 24 years, S.-G.'s Office ...

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly, at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, t thunder, d drizzling rain, p passing temporary showers, a dew.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 2nd June 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 17th May 1890

BIRTHS

The births registered during the week ending with Saturday, the 17th May 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 15.9 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is lower than the average rate of the corresponding week of the past five years by 2.2, and is also lower than the rate of the corresponding week of any of the past five years except 1887, *vide* the figures below :—

	1886.	1887.	1888.	1889.	1890.	Weekly average of five years.	1890.
Ratio of births per 1,000 of the population per annum	21.7	18.1	15.3	20.5	17.2	18.1	15.9

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	26th April 1890.	3rd May 1890.	10th May 1890.	17th May 1890.		26th April 1890.	3rd May 1890.	10th May 1890.	17th May 1890.
Bardwan	22.9	9.3	15.3	18.3	Narainganj	24.7	20.7	24.7	20.7
Bidnapore	17.0	12.4	6.2	23.2	Chittarong	11.7	9.4	10.4	21.1
Hughli and Chinsurah	34.3	23.0	24.4	24.4	Comilla	30.4	22.4	20.1	19.3
Serampore	9.8	13.7	19.7	17.7	Patna City	4.2	5.5	7.5	7.1
Uttarpara	9.4	9.4	15.9	24.3	Gya	21.9	13.3	14.5	21.2
Howrah	18.2	17.3	15.3	15.3	Arrah	10.6	14.4	10.6	19.1
Bah	7.0	21.1	7.0	10.5	Muzaffarpore	10.9	10.9	10.5	14.6
Kishnagar	3.8	22.7	17.0	11.4	Durghanga	21.2	16.5	31.5	23.6
Ranaghat	12.0	6.0	...	29.9	Chupra	22.1	14.1	5.0	15.1
Santipore	7.0	15.8	17.5	15.3	Bhagalpore	18.1	19.0	14.3	15.7
Jessore	8.1	...	15.4	...	Monghyr	19.0	17.2	9.9	23.3
Rampore Benaulah	24.2	21.0	21.5	25.9	Purneah	23.1	24.2	24.2	17.3
Darjiling	7.4	14.3	44.5	14.3	Poori	18.9	16.8	16.9	16.3
Dacca	25.4	8.5	13.5	7.3					

It will be seen that last week the highest birth-rate was returned from Ranaghat (29.9) and the lowest from Patna City (7.1). No births were registered during the week in Jessore town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 22.5 per 1,000 of the population. The rate of the week is .5 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1885, *vide* the figures below :—

	1886.	1887.	1888.	1889.	1890.	Weekly average of five years.	1890.
Ratio of deaths per 1,000 of the population per annum	20.5	20.3	20.6	20.1	20.2	22.0	22.5

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	26th April 1890.	3rd May 1890.	10th May 1890.	17th May 1890.		26th April 1890.	3rd May 1890.	10th May 1890.	17th May 1890.
Bardwan	20.9	21.4	24.4	27.3	Narainganj	8.2	10.3	19.4	15.4
Bidnapore	13.9	17.0	22.3	22.3	Chittarong	21.1	3.3	7.0	21.1
Hughli and Chinsurah	24.2	20.6	47.3	47.3	Comilla	11.0	19.3	23.1	15.6
Serampore	20.1	21.4	22.3	21.7	Patna City	40.6	20.3	22.3	17.9
Uttarpara	47.2	47.3	9.4	29.3	Gya	24.2	22.6	...	...
Howrah	10.5	17.3	15.3	15.3	Arrah	23.5	25.1	9.6	10.2
Bah	10.5	31.6	10.5	22.1	Muzaffarpore	19.8	21.9	24.3	17.6
Kishnagar	7.0	16.1	2.8	9.6	Durghanga	24.4	24.3	24.3	25.6
Ranaghat	...	47.9	14.0	18.0	Chupra	22.1	20.1	11.1	19.1
Santipore	5.3	8.8	8.5	12.2	Bhagalpore	24.4	22.3	22.3	15.6
Jessore	15.4	20.5	24.5	19.3	Monghyr	27.1	22.5	19.0	19.9
Rampore Benaulah	24.2	18.4	22.9	20.3	Purneah	21.3	27.7	27.7	20.8
Darjiling	123.7	118.6	26.9	51.9	Poori	44.1	26.7	44.1	20.9
Dacca	15.3	17.8	24.0	20.5					

It will be seen that last week the highest mortality occurred in the town of Darjiling (51·9) and the lowest in Kishnagar (9·5).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

<i>Cholera.</i>		<i>Fever.</i>		<i>Other causes.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Durbhanga	... 10·2	Darjiling	... 51·9	Hughli and Chinsurah	... 13·1
Patna	... 10·1	Rampore Beaulah	... 26·8	Poori	... 12·6
Hughli and Chinsurah	... 8·6	Arrah	... 21·5	Dacca	... 11·7
Muzafferpore	... 4·8	Hughli and Chinsurah	... 21·3	Chittagong	... 11·7
		Durbhanga	... 20·4	Midnapore	... 10·8
				Gya	... 10·2
				Chupra	... 10·1

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 2·9 from cholera, against 5·4 per 1,000 in the preceding week; 7 from small-pox, against the same ratio; 11·1 from fever, against 11·9; 1·7 from bowel-complaints, against 2·3; 3 from injury, against 2; and 5·8 from other causes, against 6·4 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	... 22·2	Christians	... 7·5	Under 1 year	... 176·2
Females	... 22·9	Hindus	... 23·3	1 and under 5 years	... 34·1
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	... 96	Mahomedans	... 20·8	5 " 10 "	... 10·8
		Buddhists	... 51·4	10 " 15 "	... 14·8
				15 " 20 "	... 10·9
				20 " 30 "	... 10·3
				30 " 40 "	... 16·6
				40 " 50 "	... 16·2
				50 " 60 "	... 22·1
				60 years and upwards	... 60·1

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

The 2nd June 1890.

Sanitary Commissioner for Bengal.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 17th May 1890.

[illegible]

DISTRICTS.		NAMES OF MUNICIPALITIES.		MORTALITY ACCORDING TO—										RATES PER 1,000 OF POPULATION PER ANNUM.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.			30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Burdwan	Burdwan	13	6

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 2nd June 1890.

W. H. GREGG, Dip. Publ. Health, Camb.,
Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.
IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1889-90.

Areas leased for irrigation up to the end of March 1890.

CIRCLE.	District.	Canal.	DETAILS OF AREAS LEASED.										Rainfall.		REMARKS.	
			Estimated full discharge.	Average discharge in month.	Discharge utilized.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	Annual leases.					During end of month.	Up to end of month.		
								Rabi.	Saurashtra.	Hbado.	Hot-weather.	Total.				
			C. ft.	C. ft.	C. ft.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches.	Inches.	Inches.	
Orissa.	Cuttack.	Taldunda, 1st reach	1,510	84	11	10,483	10,040	354	13	...	...	206	0.08	72.30	70.28
		Ditto, 2nd "	500	7	7	27,764	27,230	534	14	...	...	236	1.02	66.17	64.69
		Machgonk	778	7	7	49,315	49,744	4,008	30	...	...	4,004	1.35	77.61	81.23
		Kandrapara	1,007	245.01	213.14	1,573	1,827	215	3	...	...	214	0.79	65.38	58.34
		Gohri	375.82	13.99	9.13	1,800	2,300	515	...	...	...	7	...	71.74	47.93
SOUTH-WEST.	Midnapore.	1st extension	648	13.30	11.18	2,300	2,300	515	...	...	...	7	...	71.74	47.93
		Palamchudi	885	13.97	12.24	1,101	1,101	515	...	...	...	7	...	71.74	47.93
		High Level, Range I	803	19.60	9.68	13,184	13,184	580	3	...	...	483	...	73.09	35.10
		Ditto, ditto	727.10	...	...	3,100	3,100	81	...	...	...	88	...	67.94	67.94
		Ditto, ditto III	727.10	...	...	38,760	38,760	...	...	...	...	88	...	67.94	67.94
SOUTH.	Howrah.	Total	...	...	...	135,572	142,703	5,000	150	...	...	9,170	...	...	...
		Total of the corresponding period of last year	...	...	...	...	...	2,917	180	...	...	5,231	...	...	...
		Manasore	1,411	114	...	61,738	62,779	...	...	...	...	21	0.94	47.85	46.60
		Panchkoerah	823	22	...	3,430	4,010	440	...	...	...	440	0.37	51.75	50.47
		Total reaches, Range I-II	...	...	...	65,168	66,789	440	...	...	...	461	...	...	...
SOUTH.	Shahabad.	Total	...	...	...	...	...	3,389	...	...	...	3,401	...	...	...
		Total of the corresponding period of last year	...	...	...	...	...	...	...	...	...	...	...	...	...
		Western Main	4,343	1,037	50	20,484	27,029	3,315	140	...	...	2,534	0.33	47.65	46.40
		Buxar	1,256	824	100	73,411	71,841	2,400	1,437	447	3,380	2,500	0.10	41.44	39.41	
		Eastern main	2,000	898	630	123,194	120,502	2,400	2,522	211	8,373	31,783	...	45.77	50.40	
SOUTH.	Patna and Gaya.	Total	1,466	221	213	1,810	1,810	3,032	300	257	...	23,433	...	...	...
		Total of the corresponding period of last year	...	...	...	306,816	335,759	15,775	4,112	931	12,487	54,760	...	...	...
		Total	...	...	...	...	...	40,595	...	...	...	...	...	...	...
		Total of the corresponding period of last year	...	...	...	...	...	71,123	3,546	331	2,045	144,613	...	...	...
		Grand Total	...	...	...	858,073	853,960	33,115	4,865	931	12,037	91,460	...	...	...
SOUTH.	Grand Total of the corresponding period of last year	...	...	...	...	...	...	66,902	3,716	331	0,035	131,335	...	...	...
		
		
		
		

G. A. G. SHAW,
 Under-Secy. to the Govt. of Bengal.

CALCUTTA,
 The 2nd June 1890.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 31st May 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 31st MAY 1890.			WEEK ENDING SATURDAY, THE 1st JUNE 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	147	34,575	437	213	73,095	1,317
Jute ...	7	2,850	46	9	6,020	84
Firewood ...	95	67,575	983	108	69,000	911
Other articles ...	635	1,58,339	2,157	687	2,02,560	2,977
Total ...	884	2,63,133	3,623	1,017	3,40,665	5,289

EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the four weeks ended 26th April 1890,
as compared with the same period of 1889.

STAPLES.	1889.		1890.		Increase.		Decrease.	
	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.
ANIMALS, LIVING	Mds. No.	Rs.	Mds. No.	Rs.	Mds. No.	Rs.	Mds. No.	Rs.
	35	350	90	608	55	258	43	1,083
	134	915	114	688	20	227	78	73
	2,908	9,478	3,190	9,640	282	1,162	282	1,162
Bovine	350	274	280	189	70	85	70	85
Goats and rams
Cattle
Sheep and goats
Other kinds
Bovine	350	274	280	189	70	85	70	85
Goats and rams
Cattle
Sheep and goats
Other kinds
Bovine	350	274	280	189	70	85	70	85
Goats and rams
Cattle
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Cattle
Sheep and goats
Other kinds
Bovine	350	274	280	189	70	85	70	85
Goats and rams
Cattle
Sheep and goats
Other kinds
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Goats and rams
Cattle
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Cattle
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Goats and rams
Cattle
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Other kinds
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Goats and rams
Cattle
Sheep and goats
Other kinds
Bovine	350	274	280	189	70	85	70	85

Gram and Pulses.—This was in despatches of gram, khassie and colly from stations on the "R," "B," and "C" districts to Howrah and Burdwan for stocks and local consumption.

Iron.—The improvement under this head was due chiefly to despatches of cast-iron pipes from Howrah for the water-works at Allahabad, Agra, and Khatmandu in Nepal.

Opium.—This increase was in crude opium sent for manufacture to the Government factories at Patna and Ghazipur from different stations on the "R," "B," and "C" districts.

Railway Material, Foreign.—Chiefly consisted of permanent-way material despatched from Howrah for the Bengal-Nagpur and the Delhi-Umballa-Kalka Railways.

Salt.—There was a decrease in the weight carried attended with an increase in earnings; but there was an increase both in weight and earnings in the despatches of Liverpool salt from Howrah to stations on the Tirhoot State and the Bengal and North-Western Railways. This increase in weight was counterbalanced by decreases in the re-loading of Khaura salt from Patna, and in the receipts of Sambhar salt *via* Agra and *via* Hathras at stations in the North-West Provinces.

Saltpetre.—The increase in this staple was chiefly in despatches from the Tirhoot State Railway *via* Mokameh Ghat, and from *via* Moghalsrai, Ghazibad and Delhi to Howrah for export to Europe and China.

Seeds.—There was a falling off in the weight carried attended with an increase in earnings; the former was due to heavy despatches last year of short lead traffic in mustard and rape, poppy and linseed to Bombay from stations on the Oudh and Rohilkhand Railway passing Aligarh and Hathras junctions. The increased earnings were obtained from long distance despatches of mustard and rape seeds from stations on the "B" and "C" districts to Howrah for local consumption, and for export to Bombay.

Sugar (refined and unrefined).—There was a decrease in the weight attended with an increase in earnings, the falling off in weight was in short lead despatches from the North-Western Railway *via* Ghazibad to stations on the Bombay Baroda and Central India Railway passing Delhi; also from the Oudh and Rohilkhand Railway *via* Aligarh and *via* Cawnpore to Agra.

Bones.—The increase in this article was chiefly in despatches from *via* Moghalsrai *via* Amroli, Mokameh Ghat, Agra and Delhi to Bally and Chitpore.

DECREASES.

Piece-goods, European.—The decrease was chiefly in despatches from Howrah to Cawnpore and Delhi.

Gunny-bags.—A limited demand for bagging wheat and seeds accounts for this falling off.

Wheat.—The falling off was chiefly in despatches from stations on the "D" district to Howrah, owing to absence of demand for export due to high rates of exchange.

Rice (husked and unhusked).—This is a continuation of the decrease reported in previous months.

Other raw and spring crops.—The decrease was chiefly in oats from Bhagulpur to Howrah for shipment, and in jowar grain from the North-Western to the Bombay Baroda and Central India Railway *via* Ghazibad and Delhi.

Hides.—The decrease in despatches from all the principal despatching stations due to short supplies.

Tobacco.—Chiefly in the receipts of this commodity from the Eastern Bengal State and Assam-Bihar State Railways *via* Naihati and Shahalgunge respectively.

ALLEN MEARS, Dy. Traffic Manager.

TRAFFIC MANAGER'S OFFICE, CALCUTTA, the 30th May 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 24th May 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIL-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	840,258	2,44,451 8 0	24,00,944 20	5,85,082 14 0	21,031 3 0	8,51,908 7 4	64,864	98,609	163,503
Or per mile of railway ...	.....	160 3 11	.....	388 2 0	14 1 10	558 7 0	.....	.....	.....
For previous 20 weeks of half-year ...	5,200,770	57,38,117 12 0	5,27,00,281 20	1,23,60,006 3 3	4,02,811 14 0	1,84,04,937 14 0	1,310,734	1,000,200	3,247,434
Total for 21 weeks ...	6,400,028	67,77,600 2 0	6,01,72,220 0	1,29,44,091 1 3	4,24,340 1 9	1,93,60,008 5 0	1,676,398	2,085,500	3,410,000
COMPARISON.									
Total for corresponding week of previous year ...	801,771	2,40,927 5 2	80,55,483 18	0,90,528 5 6	20,347 3 3	9,47,602 13 11	69,448	112,960	175,238
Per mile of railway corresponding week of previous year ...	.....	157 14 11	.....	440 14 0	13 5 5	621 2 10	.....	.....	.....
Total to corresponding date of previous year ...	5,622,990	67,04,343 7 2	5,00,59,515 10	1,21,34,938 6 6	3,61,898 9 0	1,07,01,176 5 0	1,379,900	2,083,455	3,462,355

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 23rd MAY 1890.			RECEIPTS FOR WEEK ENDING 24th MAY 1890.			TOTAL RECEIPTS FROM 1st APRIL 1890 TO 25th MAY 1890.			TOTAL RECEIPTS FROM 1st APRIL 1890 TO 24th MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
1,893	Rs. 9,47,603	621	1,825	8,51,968	558	1,625	78,75,703	621	1,520	71,75,318	588	---	3,90,075

PATNA GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 24th May 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	13,338	5,618 7 0	51,022 10	2,000 0 0	30 7 0	5,654 16 0	1,519	801	2,320
Or per mile of railway ...	233	103 6 8	893 0	35 1 7	1 0 7	104 8 10	.....	.....	.....
For previous 20 weeks of half-year ...	277,347	1,42,289 9 0	9,94,213 0	64,675 15 0	521 4 0	2,06,086 12 0	22,022½	14,960	47,982½
Total for 21 weeks ...	290,685	1,47,908 0 0	10,45,235 10	67,025 15 0	530 11 0	2,17,041 10 0	24,545½	15,761	50,306½
COMPARISON.									
Total for corresponding week of previous year ...	9,002½	4,218 12 2	50,108 30	2,726 1 0	51 0 0	7,995 12 2	1,541	1,003	2,544
Per mile of railway corresponding week of previous year ...	160½	72 12 1	1,538 0	65 2 2	0 11 0	139 9 10	.....	.....	.....
Total to corresponding date of previous year ...	294,129	1,55,709 10 0	9,54,904 20	54,721 4 0	1,524 8 0	2,12,015 0 0	27,129	18,700	52,829

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 24TH MAY 1890.			RECEIPTS FOR WEEK ENDING 24TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 24TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 24TH MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	7,908	140	57½	8,365	157	57½	74,461	128	57½	98,411	186	18,900	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 24th May 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	10,620	4,816 2 0	9,376 10	376 3 0	9 0 0	5,195 5 0	808	70	878
Or per mile of railway ...	.....	218 7 3	.....	16 10 2	0 6 0	233 7 11	.....	.....	.....
For previous 20 weeks of half-year ...	446,212	1,19,851 1 0	3,06,717 30	9,723 12 0	129 10 0	1,29,777 7 0	17,763	2,168	19,931
Total for 21 weeks ...	456,832	1,24,667 3 0	3,16,093 0	10,143 15 0	201 10 0	1,34,972 12 0	18,623	2,238	20,861
COMPARISON.									
Total for corresponding week of previous year ...	19,943½	2,004 2 11	7,528 0	288 7 0	8 9 9	5,296 4 8	911	57	968
Per mile of railway corresponding week of previous year ...	.....	209 8 1	.....	13 5 0	0 6 2	240 1 2	.....	.....	.....
Total to corresponding date of previous year ...	466,843½	1,17,506 0 6	2,00,329 10	7,528 5 0	168 7 6	1,24,993 12 0	19,341	1,378	20,719

Approximate Statement of gross receipts of the Tarkeessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 24TH MAY 1890.			RECEIPTS FOR WEEK ENDING 24TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 24TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 24TH MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	2,308	246	22½	5,195	230	22½	52,227	232	22½	53,709	243	.....	112

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 17th May 1890, on 747 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boats.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	137,740	68,570 0 0	5,27,170 0	88,330 0 0	18,460 0 0	1,70,360 0 0	22,784	29,316	51,096
Or per mile of railway ...	184	92 0 0	706 0	118 0 0	25 0 0	228 0 0	30	39	69
For previous 19 weeks of half-year ...	3,130,050	*14,71,856 0 0	1,00,27,783 0	19,64,217 0 0	3,67,912 0 0	*38,03,965 0 0	436,375	549,368	*1,010,743
Total for 20 weeks ...	3,273,790	15,40,426 0 0	1,14,54,963 0	20,52,547 0 0	3,86,372 0 0	39,74,345 0 0	459,159	578,684	1,037,843
COMPARISON.									
Total for corresponding week of previous year ...	131,163	68,556 0 0	5,33,694 0	92,025 0 0	20,788 0 0	1,71,081 0 0	21,085	24,636	45,721
Per mile of railway corresponding period of previous year ...	186	92 0 0	723 0	127 0 0	28 0 0	236 0 0	30	33	63
Total to corresponding date of previous year ...	3,967,883	14,74,291 0 0	1,00,81,008 0	16,81,006 0 0	3,73,633 0 0	35,29,169 0 0	428,914	494,408	913,322

* Audited up to week ending 29th March 1890.

† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 16TH MAY 1889.			RECEIPTS FOR WEEK ENDING 17TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 16TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 17TH MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
678	Rs. 1,71,631	Rs. 255	747	Rs. 1,70,360	Rs. 228	678	Rs. 11,53,931	Rs. 169	747	Rs. 12,29,338	Rs. 165	Rs. 1,06,407	.....

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 17th May 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	28,800	6,100 0 0	41,830 0	3,270 0 0	160 0 0	11,470 0 0	3,627	2,045	5,672
Or per mile of railway ...	230	49 0 0	335 0	26 0 0	1 0 0	92 0 0	29	16	45
For previous 19 weeks of half-year ...	*541,033	1,02,423 0 0	*10,10,972 0	68,033 0 0	1,259 0 0	*2,41,778 0 0	67,031	38,446	*105,477
Total for 20 weeks ...	569,833	1,08,523 0 0	10,52,792 0	71,303 0 0	1,259 0 0	2,43,037 0 0	70,658	40,511	111,169
COMPARISON.									
Total for corresponding week of previous year ...	27,243	6,049 0 0	40,956 0	3,001 0 0	66 0 0	12,406 0 0	3,616	2,035	5,651
Per mile of railway corresponding period of previous year ...	219	48 0 0	328 0	24 0 0	.....	100 0 0	29	16	45
Total to corresponding date of previous year ...	376,403	1,07,777 0 0	11,35,967 0	68,831 0 0	4,786 0 0	2,65,008 0 0	73,373	38,762	112,135

* Audited up to week ending 29th March 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 16TH MAY 1889.			RECEIPTS FOR WEEK ENDING 17TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 16TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 17TH MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
125	Rs. 12,406	Rs. 100	125	Rs. 11,470	Rs. 92	125	Rs. 90,355	Rs. 722	125	Rs. 82,784	Rs. 662	Rs. 1,06,407	.....

DACCRA STATE RAILWAY.

Approximate Return of Traffic for week ended 17th May 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	15,690	4,990 0 0	15,850 0	1,770 0 0	80 0 0	6,840 0 0	2,614	000	3,104
Or per mile of railway ...	180	53 0 0	184 0	21 0 0	1 0 0	75 0 0	...	...	...
For previous 19 weeks of half-year ...	333,001	1,06,802 0 0	4,79,642 0	64,936 0 0	3,281 0 0	1,54,701 0 0	43,119	16,238	60,377
Total for 20 weeks ...	348,691	1,11,792 0 0	4,95,492 0	66,706 0 0	3,361 0 0	1,61,481 0 0	47,533	16,948	64,481
COMPARISON.									
Total for corresponding period of previous year ...	12,323	3,751 0 0	27,067 0	2,037 0 0	90 0 0	5,354 0 0	2,679	625	3,104
Per mile of railway corresponding period of previous year ...	142	44 0 0	318 0	23 0 0	1 0 0	63 0 0	...	...	...
Total to corresponding date of previous year ...	310,507	94,739 0 0	3,55,001 0	20,515 0 0	3,228 0 0	1,18,493 0 0	49,029	14,718	63,747

* Audited up to week ending 29th March 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 19th May 1889.			RECEIPTS FOR WEEK ENDING 17th May 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 17th MAY 1889.			TOTAL RECEIPTS FROM 1st APRIL 1890 TO 17th MAY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	3,844	65	86	6,450	75	86	35,433	60	86	47,550	79	11,713	...

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 17th May 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,984	1,037 0 0	12,787 0	730 0 0	17 0 0	1,784 0 0	569	254	723
Or per mile of railway ...	110	38 0 0	470 0	26 0 0	1 0 0	65 0 0	...	...	...
For previous 19 weeks of half-year ...	61,995	22,291 0 0	2,32,461 0	14,208 0 0	1,787 0 0	24,345 0 0	9,508	9,120	18,628
Total for 20 weeks ...	64,979	23,328 0 0	2,45,248 0	14,938 0 0	1,804 0 0	26,139 0 0	10,017	9,410	19,427
COMPARISON.									
Total for corresponding week of previous year ...	2,817	1,065 0 0	7,397 0	405 0 0	100 0 0	1,661 0 0	590	254	723
Per mile of railway corresponding week of previous year ...	103	39 0 0	271 0	17 0 0	4 0 0	62 0 0	...	...	...
Total to corresponding date of previous year ...	63,610	24,238 0 0	2,19,930 0	13,798 0 0	1,698 0 0	25,494 0 0	10,084	9,024	19,108

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 19th May 1889.			RECEIPTS FOR WEEK ENDING 17th May 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 19th MAY 1889.			TOTAL RECEIPTS FROM 1st APRIL 1890 TO 17th MAY 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	1,661	63	27½	1,734	63	27½	11,504	60	27½	11,617	60	...	...

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 31st May 1890, on 273 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mrs. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	40,084	15,010 0 0	3,29,105 0	25,329 0 0	2,945 0 0	43,785 0 0	4,823	5,346	13,571
Or per mile of railway ...	147	55 0 0	839 0	95 0 0	3 0 0	153 0 0	...	...	...
For previous 10 weeks of half-year ...	324,355	3,31,216 0 0	50,34,300 0	5,78,300 0 0	62,101 0 0	10,21,707 0 0	101,331	183,089	289,430
Total for 20 weeks ...	364,439	3,96,226 0 0	52,53,405 0	6,04,219 0 0	65,047 0 0	10,66,492 0 0	106,254	198,437	302,691
COMPARISON.									
Total for corresponding week of previous year ...	40,725	15,069 0 0	3,20,067 0	19,412 0 0	4,787 0 0	29,368 0 0	4,800	6,000	11,540
Per mile of railway corresponding week of previous year ...	149	55 0 0	861 0	71 0 0	2 0 0	126 0 0	...	...	...
Total for corresponding date of previous year ...	680,907	3,39,453 0 0	51,03,656 0	3,06,115 0 0	79,756 0 0	7,25,323 0 0	110,045	110,088	220,133

* Steam-hoat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 25TH MAY 1889.			RECEIPTS FOR WEEK ENDING 24TH MAY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 25TH MAY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 24TH MAY 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	89,285	144	273	48,655	180	273	3,11,945	143	273	3,06,273	168	55,337	...

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 3rd May 1890	...	...	13,571
Corresponding period of 1889	...	...	12,484
Increase	...	...	1,087
Receipts per mile for week ending 3rd May 1890	...	...	Rs. A. P. 268 1 7
Corresponding period of 1889	...	...	244 12 8
Increase	...	...	21 4 11
Receipts from 1st January to 3rd May 1890	...	...	1,65,108
Corresponding period of 1889	...	...	1,66,116
Decrease	...	...	1,007

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 10th May 1890	...	...	12,759
Corresponding period of 1889	...	...	13,535
Increase	...	...	776
Receipts per mile for week ending 10th May 1890	...	...	Rs. A. P. 250 2 10
Corresponding period of 1889	...	...	265 6 5
Decrease	...	...	15 3 7
Receipts from 1st January to 10th May 1890	...	...	1,77,889
Corresponding period of 1889	...	...	1,79,651
Decrease	...	...	1,762



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, JUNE 11, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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ORDERS ON THE MEMORIAL AGAINST THE ASSESSMENT PROVISIONS OF THE CALCUTTA MUNICIPAL CONSOLIDATION ACT OF 1888.

MUNICIPAL DEPARTMENT (MUNICIPAL).

Darjeeling, the 7th June 1890.

RESOLUTION.

READ—

A memorial presented to the Lieutenant-Governor on the 9th May 1890 by Maharajah Sir Narendra Krishna Deb, K.C.I.E., on behalf of the Calcutta Rate-payers' Committee, praying for certain amendments in the Calcutta Municipal Consolidation Act, II (B.C.) of 1888.

Read also—

A note prepared by the Hon'ble Sir Henry Harrison, Kt., with its appendices, dated 26th May 1890, commenting on the memorial.

This memorial of the rate-payers of Calcutta, praying for the amendment of the assessment clauses of the Calcutta Municipal Consolidation Act of 1888, has been signed by a very large number of residential house-owners, and there are included among the signatories the names of some of the most distinguished and influential citizens of Calcutta.

2. The memorial raises questions of great importance, affecting the justice and equity of municipal taxation, which have lately been under the special consideration of the Legislature, and impugns some of the fundamental provisions of a law which was passed after full deliberation, and has only been for a little more than a year in force. The arguments contained in it were discussed in the Bengal Legislative Council, and were again repeated in a memorial addressed to His Excellency the Governor-General in Council, which is referred to, and largely quoted from, in the present memorial. Those arguments were rejected, and it was deliberately decided that the Act should be left to its operation. Notwithstanding these facts the Lieutenant-Governor, having regard to the weight and influence of the signatories, and to the strong feeling which, within His Honour's cognizance, the assessment sections of the new Act have excited in Calcutta, has deemed it advisable to take the present opportunity to enquire again thoroughly into all the circumstances which led to the enactment of the provisions of the law to which the memorialists object, and to place on record in a complete form the reasons which, in his opinion, rendered legislation on the subject imperatively just and necessary. With this object a copy of the memorial was transmitted to the Hon'ble Sir Henry Harrison, the Member of the Bengal Legislative Council who was in charge of the measure, for such observations as he might wish to make. The reply received from him, which is herewith published with the memorial, is an able, elaborate, and conclusive vindication of the provisions of the existing law.

3. Under the old law [section 104 of Act IV (B.C.) of 1876] it was enacted as follows:—

"The estimated gross annual rent at which any house or land liable to rate under this Act might reasonably be expected to let from year to year shall, for the purposes of any rate to be imposed under this Act, be held and be deemed to be the annual value of such house or land."

The section of the present law [122 of Act II (B.C.) of 1888] to which the memorialists take exception is as follows:—

"For the purpose of assessment under this Act, the annual value of land and the annual value of any house built for letting purposes, or ordinarily let, shall be the gross annual rent at which such land or house might reasonably be expected to let from year to year, less in the case of a house, an allowance of 10 per cent. for the cost of repairs, and for all other expenses necessary to maintain the house in a state to command such gross rent."

"The annual value of any house not built for letting purposes, and not ordinarily let shall be 5 per cent. on the sum obtained by adding the estimated present cost of building the house, less a reasonable amount to be deducted on account of depreciation, if any, to the estimated value of the land valued with the house as part of the same premises."

"When a house is occupied by the owner under such exceptional circumstances as renders a valuation of 5 per cent. of the cost of building, less depreciation, excessive, a lower percentage may be taken."

4. The prayer of the memorialists is directed against that portion of the new section which relates to the assessment value of houses built for residential purposes. The exact words of the memorial are—

"The amount spent in the building or enlargement of a family dwelling-house affords therefore, in the vast majority of cases, no criterion as to the owner's means or position in life, and should not, it is submitted, be adopted as the basis of taxation. Such houses should be rated at the annual letting value, to be determined with regard to the purposes for which they were built and for which they are capable of being used."

And again—

"Your memorialists believe that there is no difficulty in practice, in the generality of cases, to ascertain the letting value of any house property. They submit that such letting value is the fair and proper basis of assessment, and it is unaccountable to them why, in the case of a residential house, the cost price of the building, together with the value of the land on which it stands, should be taken as the basis of assessment; while, in the case of tenanted houses, rent should be considered as a fair criterion for assessment."

5. The English law on the subject of rating is that the net annual value of hereditaments shall be the rent at which they may reasonably be expected to let, after deducting the probable average cost of repairs, insurance, &c. The memorialists desire to see the English law applied in Calcutta. They ignore, however, the radical difference between England and India in sentiments, manners, and custom. In England there is no prejudice against living in a hired house, the houses let on hire in a street are generally more numerous

than those in the occupation of their owners, and there is no difficulty whatever in assessing the reasonable rent of a residential house with reference to the rent actually paid by similar houses, with similar advantages, in the immediate locality. But in India, where there is the strongest possible prejudice against living in a hired house, and all the houses over large areas, with very few exceptions, are occupied by their owners, it is impossible to institute any fair standard of comparison with the rent of houses let on hire. If such a standard were adopted, if, that is to say, residential houses were compared with houses built for letting on the basis of their cost, accommodation or cubic feet of material, respectively, it would have led to an enhancement of assessment of residential houses much greater than it is now under the present Act. It became necessary therefore to adopt some other standard of value for residential houses in Calcutta, and after full consideration it was decided that a fair valuation of this class of houses would be attained by the assumption of an annual payment of 5 per cent. on the true value of the house and land as the hypothetical rent, with a lower percentage to meet exceptional cases.

6. According to the argument of the memorialists, residential houses should be compared, not with houses built for the purpose of letting, but with the few residential houses which the owners have for some reason or other been compelled to leave, and for which they have been compelled to obtain such tenants as they can get with no market and all the prejudices against this form of living. It is assumed in the memorial that the person occupying his own house is not a tenant, and that some other tenant must be found, and that the rent this other tenant would pay should be ascertained and fixed as the basis of valuation. Although there is in the parts of Calcutta to which reference is made no efficacious demand for hiring family houses; although it is admitted that the prejudice against maintaining one's family in a hired house is so strong that "a person would rather have two or three cottahs of his own with tiled huts to live in than live in a hired pucca house;" although the feeling on this subject is so marked that even buying a house ready built by some one else is regarded as less desirable than building one for one's self, and in consequence a house built as a family residence is at so marked a disadvantage in finding any tenant, other than the owner, compared with all other classes of houses, as to depreciate its value by about one-half when tried by this test alone, it is nevertheless urged that for purposes of municipal assessment such a house should be valued at the amount of rent which it would obtain if let to another person. This argument, as Sir Henry Harrison points out, is as fallacious from the standpoint of English law on the subject of rating as it is contrary to fairness and justice. The authorities cited conclusively show that, according to English procedure, when a property is not usually let, a hypothetical tenant is assumed; and the owner of the house, if he actually does occupy it, is regarded as among the possible hypothetical tenants, and the annual value of the tenancy to him is then calculated in exactly the same way as the new section of the Act calculates it. This is the only manner in which the real value of houses which are never let on hire can be ascertained in comparison with houses built for letting purposes. The purpose for which the house is built must be looked to in both cases. In the latter case the letting value is a fair criterion; in the former it is not.

7. It is an incontrovertible principle that the taxation of property for the purposes of municipal administration should be proportioned to its value. But residential houses in Calcutta have hitherto not been taxed on this principle, and it is precisely because these houses were not being rated at a reasonable value, having regard to the purposes for which they were built—occupation by their owners—but at a letting value, having regard to a totally different purpose, i.e. hiring by a person not the owner, to whom they were never let, that the new section of the law was deemed necessary. Sir Henry Harrison demonstrates with much force in his special note on the subject that it is the owners and occupiers of their own houses who paid least and for whom most was done under the old law. The statistics he furnishes show that, as a whole, they derive far more by way of municipal benefits than they pay; while they have been assessed at very much less than the fair amount due from them. They show that the mercantile wards of the town pay a large portion

of the rates and taxes for which the residential wards receive benefits, and that for all other sources of municipal income outside rates the incidence of taxation is as much against the trading and mercantile community as it is in the matter of rates. In other words, the interests of the trading and commercial community have in practice (though not of course deliberately) been rendered subservient to those of the ground landlords. It is well known that during the past ten or fifteen years the value of land has doubled or quadrupled in value, while the assessment value, even under the operation of the new Act, affords an increase during six and a quarter years of only 22·8 per cent. It was to remedy what Sir Henry Harrison justly calls "the scandal of the under-valuation of houses occupied by their owners" that the new section of the law was passed. The Lieutenant-Governor recognises that those persons who have not hitherto realised how much they have previously been under-assessed in comparison with less favoured classes may not unnaturally protest against a law which, in providing for a more equal system of assessment, imposes increased burthens on themselves; but the Lieutenant-Governor is thoroughly satisfied that the new system is more equitable than the old one, and that it would be improper for the Government, notwithstanding the high position of the signatories and the importance which he attaches to their protest, to hesitate in upholding the efforts of the Legislature to equalise the incidence of taxation.

8. Under the old law no deduction was allowed for repairs. It is estimated therefore that under the old law the so-called owners, who are also the occupiers of huts in bustees, were over-assessed by about 25 per cent.; that the occupiers and owners of houses, offices, shops and places of business, built for letting purposes, were over-assessed by about 15 per cent.; that owners of bustee lands and the owners and occupiers of large public buildings were on the whole correctly assessed, though there is reason to believe that in some cases such buildings were too highly valued; while owners living in their own houses, built for such occupation and not for letting purposes, were under-assessed by 30 to 50 per cent. if tested by the rule for valuing Government buildings, and by even more than this if the Bombay rule were followed, and their value were tested by comparison with the accommodation, cost or cubical space of houses built for letting purposes. These inequalities are rectified by the new Act, which allows a deduction for repairs in the case of letting houses, and in the case of residential houses imposes a reasonable valuation. In regard to this valuation, Sir Henry Harrison writes:—"The advantage of the proposal adopted by the Act is that it carries on the face of it its own justification. In all ordinary cases the cost of building, *plus* the value of the land occupied by the tenement, obviously determines the reasonable rent, and even the most superficial acquaintance with Calcutta enables any one to know that a net return of 5 per cent. is an extremely moderate return for money invested in house property. If, therefore, this standard, when applied to houses occupied by their owners, greatly enhances the valuation, the result carries with it its own evidence of previous under-valuation." Even under the provisions of the new Act, residential houses will, if anything, remain somewhat under-assessed, while letting houses, valued according to their actual gross rental, with an allowance of only 10 per cent. for repairs, will still be somewhat over-assessed. The result of recent legislation is nevertheless a decisive approach to fairness and equal taxation. It is proposed by Sir Henry Harrison, in the 40th paragraph of his note, that when the whole town has been re-valued under the new law, the equity of the valuations should be tested by a Committee of Engineers and Surveyors. "If," he writes, "they find that residential houses, occupied by their owners, are proportionately more highly valued than other classes of buildings, let redress be promptly given; but if, as I am confident will be the case, the verdict is the other way, then further steps should perhaps be taken to redress the balance; for it is surely intolerable that the group of rate-payers, which, under circumstances of strictly equal rating, must inevitably enjoy far more advantages than they pay for, should not even pay equal rates." In the Lieutenant-Governor's opinion this suggestion is one which may very properly be attended to if the owners of houses built for their own occupation should, when the present revaluation of the town is finished, still be found to maintain that they have been unfairly treated.

9. It is observed in the memorial that the hearing and determining an objection preferred against an assessment made by a subordinate by his executive superior is subversive of the principle of Local Self-Government and can never be satisfactory. Sir Henry Harrison has devoted the last of the appendices attached to his note to a consideration of this question. His weighty remarks deserve the careful attention of all interested in the welfare of Local Self-Government in this country. His conclusion, that if Local Self-Government is to be a success, it is necessary for the Municipal Commissioners to leave all judicial functions to others, and to content themselves with financial and administrative control, meets with the Lieutenant Governor's complete concurrence.

10. The second feature in the new Act to which the memorialists have taken exception is the provision in sections 117, 118 and 119, by which the ground landlord in bustees is required to pay all the rates (one-half of which on account of the land on which the hut stands and the entire consolidated rate on account of the hut he is entitled to subsequently recover from the hut-owner by the same process as the recovery of rent), being allowed a deduction of 2 annas in the rupee for risk and costs of collection. The principal object of this provision is to protect the bustee tenants from the collecting establishments of the Municipality. Sir Henry Harrison's remarks on this aspect of the question deserve careful consideration. "If needed in England, it is needed ten times more in Calcutta, where this is the class habitually most oppressed and most silent under oppression. Under the old law the number of warrants issued in Calcutta annually was between 30,000 and 40,000, the great bulk of course in connection with these poorer rate-payers—100 warrants a day; yet who heard anything of them? Under the new system a single warrant has been issued against a wealthy ground landlord who, with ample means, was openly defying the law, and the whole of Calcutta rings with the event, and a suit in the High Court is the result. Is any comment necessary on such a contrast?" And again—"The ground landlord invests no capital in the bustee (except perhaps for drainage), he risks nothing, he ventures nothing, and he appropriates all the profits of the municipal improvements. The value of bustee land—since the bustees have been improved by the Corporation, have had roads made through them, bathing platforms erected in them, and their conservancy attended to—has gone up from 50 to 300 per cent. At a most moderate computation, the ground rents of bustees in Calcutta have increased by five lakhs annually during the last six or seven years. The landlords have literally grown rich in their sleep, and can they, forsooth, complain of injustice because, for the well-being of the community, they are required, as in England, to advance the rates for the poor tenants?" No additional remarks from Government are required to justify these sections of the law.

11. For the rest the Lieutenant-Governor has only to express his general agreement with the remarks recorded by Sir Henry Harrison in the memoranda submitted by him to Government. The whole of the papers will now be published in the *Calcutta Gazette*.

ORDER — Ordered that a copy of this Resolution, and of the papers recited in the preamble, be published in the *Calcutta Gazette*.

Ordered also that a copy be forwarded to Maharajah Sir Narendra Krishna Deb, K.C.I.E., on behalf of the memorialists, for information.

Ordered also that a copy be forwarded to the Chairman of the Calcutta Corporation for information and for communication to the Commissioners.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Secretary to the Government of Bengal.

Date: Calcutta, the 9th May 1890.

From—MAHARAJA SIR NARENDRA KRISHNA DES, K.C.I.E., President, Rate-payers' Committee,

To—The Secretary to the Government of Bengal, Municipal Department.

I HAVE the honour to forward, for the consideration of His Honour the Lieutenant-Governor, the accompanying memorial of the rate-payers of Calcutta, praying for the amendment of the Calcutta Municipal Consolidation Act of 1888.

To—THE HON'BLE SIR STEUART BAYLEY, K.C.S.I.,

Lieutenant-Governor of Bengal.

The humble memorial of the undermentioned rate-payers of Calcutta.

SHEWETH,

That your memorialists, who are rate-payers of Calcutta, venture to approach your Honour with their representation in regard to some of the provisions of the Calcutta Municipal Consolidation Act of 1888.

Your memorialists at the time of the passing of this Act apprehended serious difficulties in the working of it. Their apprehensions they are sorry to find were not unfounded.

That by the latter part of section 122 of the present Municipal Act, an entirely new principle of assessment of house properties was introduced, cannot be denied. The prior Act directed the Commissioners to proceed upon the equitable and uniform basis of annual letting value, whether the house was built for letting or residential purposes. By the present Act this principle of assessment is, in the case of houses not built for letting purposes, and not ordinarily let, abandoned, and a new principle of assessment introduced, based on the estimated present cost of building a house less a reasonable amount for depreciation, if any, added to the estimated value of the land. So far as your memorialists have been able to ascertain, this innovation was attempted to be justified by the statement that houses built for the residence of the owners were not sufficiently taxed, whilst houses built for letting purposes occupied by tenants were over-assessed; your memorialists are unable to subscribe to the statement. The joint family system is an essential characteristic of the Hindu social order, and is largely adopted by the Mahomedan residents in this country. It is not, as is observed by John Stuart Mill of large families in England, the result of a person's own choice, and is not, so far as public interest is concerned, a thing to be discouraged, but rather promoted. The system of family life obviates by its existence almost entirely the necessity of any Poor Law. The amount spent in the building or enlargement of a family dwelling-house affords, therefore, in the vast majority of cases, no criterion as to the owner's means or position in life, and should not, it is submitted, be adopted as the basis of taxation. Such houses should be rated at the annual letting value to be determined with regard to the purposes for which they were built, and for which they are capable of being used.

Your memorialists anticipated, though not to the fullest extent, the mischievous effect of this innovation in the law, as is apparent from the memorial of the rate-payers of Calcutta to His Excellency the Earl of Dufferin, then Viceroy and Governor-General of India, submitted on the 6th day of June 1888, in which it was stated as follows:—

"Your Excellency's memorialists would respectfully call Your Excellency's attention to the provisions of section 122 of the Bill, which have created little less than a panic among the bulk of Hindoo rate-payers who for the most part live in their own ancestral houses. A proviso has been added in the course of the discussion in Council that 'under such exceptional circumstances as renders a valuation of five per cent. excessive, a lower percentage may be taken.' But Your Excellency's memorialists crave leave to point out that the proviso, because it will deal with exceptional cases, will not afford the relief that is sought for. The principle of assessment which is here enforced is an innovation in the law of the land, and is apparently opposed to the principles of English law as interpreted by the High Court in the case of *Nando Lal Bose versus the Corporation of Calcutta*. Sir Richard Garth in that case said:—'The principle of rating on which the Commissioners are directed to proceed is the same which is adopted in England; and similar difficulties arise there in the case of gentlemen's parks and mansions which are laid out for residential purposes and not for sale or letting. But such properties are nevertheless constantly rated upon the basis of their annual letting value.' And Mr. Justice Wilson in the same case said—'But the whole system of taxation and assessment under the Act in question is obviously borrowed in its general outlines from English Rating Acts.' But be that as it may, this new provision in the Bill will prevent

people from building large houses which are as much a source of comfort as they are a means for the preservation of health. The change in the law is sought to be justified on grounds of Political Economy, and the high authority of John Stuart Mill is quoted in support of it. The following passage is confidently cited as one that thoroughly bears out and justifies the changes in this section:—

“The public were justly scandalised on learning that residences like Chatsworth or Belvoir were only rated at the imaginary rate of perhaps £200 a year, under the pretext that, owing to the great expense of keeping them up, they could not be let for more, probably even they could not be let for that, and if the argument were a fair one they ought not to have been taxed at all. But a house tax is not intended as a tax on incomes derived from houses, but on expenditure incurred for them. The thing which it is wished to ascertain is what a house costs to the person who lives in it, not what it would bring in if let to some one else. When the occupier is not the owner, and does not hold on a repairing lease, the rent he pays is the measure of what the house costs him; but when he is the owner, some other measure must be sought. A valuation should be made of the house, not what it would sell for, but what it would cost for rebuilding it, and the valuation might be corrected by an allowance for what it had lost in value by time, or gained by repairs and improvements.”

“But Your Excellency’s memorialists beg leave to point out that there has been in this instance only a partial application of the principles of Political Economy. The Hon’ble Member in charge of the Bill, who quotes the above passages from Mill’s Political Economy in support of his view, omits to quote the passages which immediately follow, and which bear distinctly in favour of the rate-payers’ point of view, but which Your Excellency’s memorialists regret to find have not been embodied into law. John Stuart Mill goes on to remark:—

“The amount of the amended valuation would form a principal sum, the interest of which at the current price of the public funds would form the annual value at which the building should be assessed to the tax. As incomes below a certain amount ought to be exempt from income-tax, so ought houses below a certain value from house-tax on the universal principle of sparing from all taxation the absolute necessities of healthful existence” (Mill’s Political Economy, Book V, Chapter III, page 504, People’s Edition).

“If these principles are to be applied, it is obvious that the valuation should be fixed at 4 (which represents the current rate of interest on Government Securities) and not at 6 per cent., as has been fixed under the Bill; and further, houses below a certain value should have been exempted from the house-tax altogether, which has not been done. Your memorialists venture respectfully to urge that it is an unfair application of economic principles to enforce them only when they operate to the prejudice of the rate-payers, and impose upon them a heavier burden of taxation; but to omit them when they tend to afford to the poorer section of the community the relief to which they are fairly entitled. If it is thought necessary in equity to make the richer section of the community pay, what it is alleged they had not hitherto done, their fair share of contribution to the Municipal taxes, is it not demanded, Your Excellency’s Memorialists venture “to enquire, by the highest justice, that the poorer classes should obtain that relief “which the principles upon which this section of the law is ostensibly based have provided “for them? Your Excellency’s Memorialists will not hesitate to affirm that it is a singularly “unfair piece of legislation which in the name of economic principles seeks to lay a heavy “burden upon the well-to-do classes, but will not provide for that relief to the poorer classes “which these principles distinctly contemplate.”

The mischievous tendency of this provision of the Law foreshadowed in the aforesaid Memorial has been realised in fact, and it most fully appears from the recent assessment of House property in Calcutta. The annexed table marked A shows the extent of increase made in ward No. 6, the total amount of increase in 1,177 cases only being from Rs. 5,54,866 to Rs. 6,81,319; and Your Memorialists submit that an examination of assessment books will show that the bulk of the increase has been in cases of small house property. A few cases set forth in the table marked B will show to what extent the assessment of small houses in ward No. I is proposed to be increased. Can it be for a moment supposed that these small houses had been underassessed under the old Law? Your Memorialists are confident that it is impossible to come to any such conclusion, and if that be conceded, it seems to Your Memorialists that the assessment of such houses on the basis laid down in the Act is indefensible. In this connection, Your Memorialists solicit Your Honour’s attention to the two cases in the annexed table marked C, which show how the application of the principle of valuation for residential houses has resulted in the imposition of greater burdens on owners as contrasted with the amount of tax their co-sharers have to pay monthly for similar property let out to tenants but not occupied by them. Numerous examples of a similar nature can be added. Instances of houses purchased for residential purposes, but which for some accident have not been so used, but have been let out, will lead, from the rate of rent realised, to the same conclusion. Your Memorialists regret that the provisions in section 122 as to residential houses were laid down without any enquiry as to the real

state of things, but were based upon a supposed principle (not applicable to the people of this country) that no one spends more for a house than what would yield at least five per cent. if the house were let out.

Your Memorialists beg further to submit that the procedure laid down by the section now under consideration, for the valuation of residential houses, is so complex in its character as to render it impossible to ensure an equitable and satisfactory working of it. With reference to the estimated present cost of the building, it is to be observed that the cost of building varies according to the quality of materials used, and that, at the time of the assessment, it is in most cases quite impossible to find out the quality, and, therefore, the present value of such materials. One house, seemingly as good as another, may be worth much less, though both built at the same time; and when a house built many years ago has to be valued with reference to the price of the materials ruling at the present time, the chances of mistake to the prejudice of the owner must be great; whilst, the deduction for depreciation being made subject to no settled rule, the liability to mistakes on the part of the Executive Officers of the Corporation to the prejudice of the owners is greater. The provision in the present law was said to have been necessary on account of the difficulty in ascertaining the annual letting value of houses occupied by the owners, but it is apparent the difficulty has now been considerably enhanced on account of a large number of unknown factors to ascertain each of which elaborate and detailed enquiry is needed.

That under these circumstances the assessment of House property in Calcutta has caused widespread discontent amongst the house-owners of Calcutta, which Your Memorialists deem it necessary to point out to Your Honour. They respectfully submit that, while in the course of 9 years, i.e., from 1874 to 1884-85, only 1,805 appeals were preferred from all Calcutta against the assessments made by the assessor (as will appear on reference to the table marked D), yet in the short space of one year in respect of assessment of only two of the wards of Calcutta more than 1,000 petitions of objections have been filed by owners of residential houses; and if Your Honour be pleased to direct an enquiry as to how such objections are being disposed of, it will be seen that the modification of the previous Law by section 136 of the present Act as to the hearing and disposal of objections has, in a large number of cases, resulted practically in a denial of justice.

The hearing and determining of an objection, preferred against an assessment made by a subordinate, by his executive superior, is, Your Memorialists would venture to say, subversive of the principle of local self-government and can never be satisfactory. Even the provision, as in the original Bill, of a Bench of not less than three Commissioners presided over by the Chairman or Vice-Chairman to hear appeals would have minimised the evil now complained of.

Your Memorialists believe that there is no difficulty in practice in the generality of cases to ascertain the letting value of any house property; they submit that such letting value is the fair and proper basis of assessment, and it is unaccountable to them why in the case of a residential house the cost price of the building, together with the value of the land on which it stands, should be taken as the basis of assessment; while in the case of tenanted houses rent should be considered as a fair criterion for assessment.

Your Memorialists now crave leave to refer to another provision of the Law, which is unduly pressing upon the bustee owners of Calcutta. They refer to section 117 of the said Act. When there was a discussion in Your Honour's Council on the subject, the Hon'ble Sir Charles Paul, Advocate-General of Bengal, was pleased to say as follows:—

"I wish to explain that the precedent which the Hon'ble Member in charge of the Bill relies upon does not apply in this case. In England, all house property belongs to the landlord: in this country, huts belong to the tenants. Everything put upon land in England belongs to the landlord: here huts belong to the tenant, and, therefore, I submit, it is unfair to make the landholder pay for property of which he is not the owner."

Your Memorialists deeply regret that notwithstanding this opposition by the highest Law officer of the Crown, the section was passed into Law by your Honour's Council.

Your Memorialists submit that the means possessed by the Municipality to enforce payment of the bustee bills from the occupiers of the bustee land are ample compared with the limited powers which land-owners have. The former

have at its discretion the power of distress warrant and summary sale after a short notice which involve charges payable by the debtor, whereas the latter is referred to the ordinary law of debtor and creditor in reference to which a former Chief Justice of the High Court is reported to have said that "the trouble of the creditor begins with the decree" which at an average seldom realises more than half of the claim. It is undeniable that the Corporation with such large powers has not always been successful in collecting the rates, without having recourse to the extraordinary powers which the law has conferred on it; and if so, how still more difficult must it be for private individuals to undertake these collections? Your Memorialists venture to submit that the modification of the Law exempting those whose duty it is to collect the taxes directly from the parties liable to pay the same is a positive injustice. Even the Government in the collection of land revenue with the sunset and the certificate laws to back it has never on an average collected more than 92 to 95 per cent. of its dues. Your Memorialists submit that the remedy does not lie in transferring responsibility on those who are not reasonably liable to it. Under the law the occupier or tenant is to pay the taxes due on his holding, but this transference of the responsibility to the owner is a positive injustice, particularly adding the losses incident to civil suits on persons who are not the rightful debtors and have no concern with the same and who have not the means of recouping their loss.

Your Memorialists fail to see what principle of fairness has guided the Legislature in framing this section, the object of which evidently is to relieve the Municipality, at the expense and annoyance of the land-owners, who, as a rule, experience great difficulty in recovering their dues from their tenants; and Your Memorialists feel that this section of the Law has entailed serious hardship upon bustee-owners generally, and particularly upon owners of small bustees of limited means, for under the law any plot of bustee land measuring 10 cottas and upwards is a bustee.

There are other sections also objectionable, but Your Memorialists do not desire to comment on them on the present occasion.

Your Memorialists therefore humbly pray Your Honour to take their Memorial into your favourable consideration and to move Your Honour's Council for the modification of the Municipal Law in the respects herein mentioned.

And your Memorialists will ever pray.

JOTENDRO MOHUN TAGORE.
NARENDRA KRISHNA.
DOORGACHURN LAW.
SOURINDRO MOHUN TAGORE.
SHAM CHURN LAW.
RAJENDRALALA MITRA.
RAJENDRA NARAYAN DEB.
JADOOLAUL MULLICK.
BINOYA KRISHNA.
MAHOMED FURROKH SHAH.
DEBENDRA MULLICK.

(And many others.)

A.

WARD 6.

Statement showing the increase of assessment of premises in percentage.

	No. of premises.		No. of premises.
1 to 10 per cent.	139	141 to 150 per cent.	5
11 to 20 per cent.	264	151 to 160 per cent.	4
21 to 30 per cent.	175	161 to 170 per cent.	4
31 to 40 per cent.	162	171 to 180 per cent.	6
41 to 50 per cent.	108	181 to 190 per cent.	3
51 to 60 per cent.	80	191 to 200 per cent.	3
61 to 70 per cent.	71	201 to 210 per cent.	0
71 to 80 per cent.	35	211 to 220 per cent.	3
81 to 90 per cent.	37	221 to 230 per cent.	1
91 to 100 per cent.	26	231 to 240 per cent.	2
101 to 110 per cent.	9	241 to 250 per cent.	2
111 to 120 per cent.	13	251 to upwards	12
121 to 130 per cent.	9		
131 to 140 per cent.	4	Total No. of premises	1,177

B.			
No. of premises.	Name of street.	Former assessment.	Proposed assessment.
20 4	Bosepara Lane ...	3	15
3/1	Choudhury's Lane ...	10	24
3	" ...	24	90
7	Mohendra Bose's Lane ...	30	95
8/1	Ram Kanta Bose's 2nd Lane ...	33	86
6 2	Deerchand Gossain's Lane ...	36	84
61 4	Bagbazar Street ...	36	102
61 3	" ...	42	113
51 1	Ram Kant Bose's Street ...	48	200
3	Pal's Lane ...	48	127
25/2	Bosepara Lane ...	60	152
33 1	" ...	60	125
61	Shyambazar Street ...	60	180
191	Upper Chitpur Road ...	60	232
19	Telipara ...	60	230
6	Rajah Kali Krishna's Street ...	60	220
6	Gocul Mitter's Lane ...	72	190
5	Raja Kali Krishna's Lane ...	72	227
25 3	Bosepara Lane ...	72	212
58	Ram Kanta Bose's Street ...	84	219
41 1	Bagbazar Street ...	96	231
52	" ...	96	198
66	" ...	96	215
48 1	Ram Kanto Bose's Street ...	96	208
6	Telipara Lane ...	96	198
34	Nava Krissen's Street ...	96	336
25	Santiram Ghose's Street ...	108	306
103	Cornwallis Street ...	108	307
64 1	Bagbazar Street ...	120	570
55	Bosepara Lane ...	120	353
1 2	Hem Chandra Kar's Lane ...	120	265
6	Bulloram Ghosh's Street ...	120	385
45	Bosepara Lane ...	135	300
225	Upper Circular Road ...	144	420
19	Hurrolal Mitter's Street ...	144	350
8	Chowdhry's Lane ...	144	380
13	Bagbazar Street ...	156	316
7	Bulloram Ghose's Street ...	156	460
66	Rajah Rajbulluv's Street ...	180	327
16	Santiram Ghose's Street ...	180	438
19	Brindaban Pal's Lane ...	180	432
5	Puddo Nath's Lane ...	180	360
61	Bagbazar Street ...	180	402
3	Hem Chander Kar's Lane ...	192	338
33	Shyambazar Street ...	192	588
106	" ...	192	495
11	Gopal Biswas' Lane ...	204	663
108	Cornwallis Street ...	208	543
34	Bosepara Lane ...	216	430
17	Santiram Ghosh's Street ...	216	565
19	Mohendra Bose's Lane ...	216	410
49	Bosepara Lane ...	240	480
32	Santiram Ghosh's Street ...	240	915
15	Ram Kanta Bose's Street ...	300	700
12	Ramdhone Mitter's Lane ...	300	560
46	Bosepara Lane ...	312	832
2	Kristoram Bose's Lane ...	336	612
52	Raja Nava Kissen's Street ...	360	750
48	Bosepara Lane ...	360	725
5	Ramdhone Mitter's Lane ...	450	972
182	Upper Chitpur Road ...	600	1074
18	Rajah Rajbulluv's Street ...	720	1390
2/6	Rajah Nava Kissen's Street ...	800	1620
2 1	" ...	800	2110

C.

No. of premises.	Co-sharers in original property.	Purpose used.	Addition.	Assessment.
55, Bosepara Lane.	Tarraprosono Chatterjee.	Dwelling house ..	Nil	Increased from 120 to 353.
54, Bosepara Lane.	—Female—	Tenanted house ...	Nil	Increased from 120 to 144.
45, Ramkanto Bose's Street.	Prosono Coomar Banerjee.	Dwelling house ...	Nil	Increased from 96 to 108.
46/1, Ramkanto Bose's Street.	Kanti Chunder Banerjee.	Tenanted house ...	Nil	No increase Rs. 96.

D.

Statement showing areas assessed and appeals preferred and disposed of in cases of new assessment of houses and lands in the Town of Calcutta during the period of 9 years noted below.

(Vide Annual Administration Reports of the Municipality for the several years respectively.)

Years.	Areas assessed.	Number of objections or appeals preferred against new assessments.	Number of objections or appeals disposed of in favour of applicants.	Number of new assessments confirmed, i.e. of appeals rejected or struck off.	Number of appeals pending decision.	REMARKS.
1874	North Division, Blocks Nos. VII-A1-XII-XIII and XIV.	100	56	44		
1875	Blocks Nos. I, II, III, IV, V, VI, VII, IX, XV and XVI.	1,187	711	476		
1876	Bounded on the north by Aunnopurn's Ghat, south by Shovabazar Street, east by Upper Chitpore Road, and west by the river Hugly.	21	17	4		
1877	Wards Nos. 6, 3, 4 and 1	138	97	41		
1878	Wards Nos. 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 and 18.	97	26	43	28	
1879	Ward No. 5 and a portion of Ward No. 2.	4	4	2		
1882-83	Ward No. 2	24	20	4		
1883-84	Wards Nos. 1, 3, 4, 6, and 9.	257	180	77		Of the 257 appeals, 90 were against old assessments.
1884-85	Wards Nos. 5, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18.	207	86	54	67	Of the 207 appeals, 142 were against old assessments.
	Total objections preferred during the above 9 years.	2,037	1,197	745	95	
	Deduct number of appeals against old assessment.	232				
	Net total of objections against new assessment.	1,805*				

* This divided by 9 gives the average number of objections (about 200) per annum.

*Note on the memorial addressed to the Lieutenant-Governor against the Assesment:
Sections of the New Municipal Consolidation Act.*

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NOTE.

THE memorial presented to His Honour the Lieutenant-Governor protesting against certain provisions of the New Municipal Consolidation Act has been sent to me for comment, and in reply thereto I beg to submit the following note.

SHOULD THE QUESTION BE RE-OPENED.

1. In the first place, I would point out that the memorial discloses no sufficient ground to warrant the re-opening of this question after so brief an interval.

Nothing has occurred to justify the re-opening of the question after so short an interval.

That the standard of 5 per cent. on the present estimated cost of building, as an equivalent to the annual rent, would increase the valuation of most of the houses occupied by their owners in Calcutta, was not merely fully contemplated when the Calcutta Municipal Consolidation Act was passed, but was even put prominently forward as the chief justification for the new section. The argument employed was substantially this. Looking to the ordinary return in Calcutta on capital invested in building houses, 5 per cent. is a very low estimate of the rent realised for such buildings: that is, of the net rent after all outgoings for repairs and other expenditure necessary to keep the premises up to their letting value. But houses built by persons for occupation by themselves have been for various causes valued much below this standard. This constitutes a grave injustice, as other rate-payers have to pay higher rates in consequence of this low valuation, and therefore the remedy proposed is to

take 5 per cent. as the net rent in ordinary cases, allowing a lower percentage to be taken whenever exceptional circumstances may render the higher percentage excessive.

2. If any one ventured to deny the effect this would have on the valuation of such houses, it was those who opposed, not those who advocated the section. The Hon'ble Kalinath Mitter, in his speech opposing the section, said—"I think it is an error to suppose that as a general rule the owner of a residential house has hitherto been under-assessed. I admit that in certain exceptional cases it has been so, but barring those exceptions, I submit that the statement of the Hon'ble Member in charge of the Bill is wholly erroneous, and, if necessary, I think it would be well, before the Council finally decides this matter, to have a thorough enquiry on the point." As the statement made was that, if these houses were valued at less than 5 per cent. on the legitimate cost, they must necessarily in Calcutta be under-valued, the assertion to be relevant must have meant that they were not, save in the case of a few exceptions, valued at less than 5 per cent. Accordingly, I replied: "Can anyone doubt that in the part of the town where this Council is situated, or on the river bank, or in Chowringhi, houses are assessed at fully 5 per cent. on their cost, probably more—either 6 or 7 per cent? If there is any doubt that in the native part of the town residential houses are assessed less highly, then why this outcry against 5 per cent? So far from there being an outcry, we ought to be thanked for reducing the valuation to 5 per cent. Is anything more necessary to show that my fundamental contention is right?"

3. It is as clear as possible therefore that the section was introduced and passed with the fullest knowledge that it would add considerably to the valuation of houses occupied by their owners. As such, it was vigorously opposed in Council. As such it was vigorously opposed out of Council by a deputation to the Lieutenant-Governor. As such it was vigorously opposed in a memorial addressed to the Viceroy and Governor-General before he assented to the Bill, to which the present memorial refers. It was not till all these remonstrances had failed that the Bill became law. What has happened in the past year then to justify a reconsideration of it? Two wards have been completely re-valued: one, No. 25, a ward recently in the suburbs, has few residential houses in it, and its revaluation presents no results that specially bear on this question. The other ward, No. 6, is full of such houses. Six and a quarter years have elapsed since its last valuation, and the result is that the aggregate valuation has increased from Rs. 5,54,866* to Rs. 6,81,319—an increase of 22·8 per cent. Considering the great increase in the value of land during those six and a quarter years, and the number of new houses that have sprung up (all of course included in this increase), it is, I think, patent on the face of these statistics that the increase has been most moderate, so moderate as to furnish grounds for apprehension that the legal standard has been applied with mistaken leniency.

Besides the reassessment of Ward No. 6, Ward No. 1, a ward full of houses occupied by their owners, has also come under re-valuation in the last quarter of the year, and the enhancements resulting therefrom have furnished much fuel to the agitation. The figures are not yet known, as the objections are under decision: but my impression is that the outcome will be as reasonable there as it has been in Ward No. 6. There is a further test which can be looked to, the safeguard of appeal to the Small Cause Court. Very few appeals have been preferred during the year. In the principal one, the case of Baboo Nundo Lal Bose, the valuation was admitted to be fair, if a certain principle of valuation was upheld, which the Court did uphold. *In not one single appeal up to date has the valuation made by the Chairman or Vice-Chairman on objection been reduced.*

4. I maintain therefore that so far nothing whatsoever has occurred during the first year of the operation of the section to justify an appeal for its reconsideration; the working of it has been most carefully supervised, and the enhancement of valuations under it very moderate.

* These figures are quoted from the memorial: they are incomplete, as they not only leave out the pending objections, the decision of which has raised the figures to Rs. 5,74,084, and Rs. 7,05,512, but also all the bustees in the ward valued at above one-half lakhs, not much changed by its re-assessment.

THE CASE OF THE MEMORIALISTS AS REGARDS SECTION 122.

5. As, however, a meeting of rate payers has been held in the Town Hall, and a further memorial drawn up and submitted, it is desirable that the arguments put forward to Government should be further examined. I think that, so far as the memorial is directed against section 122, full justice is done to it by the following summary of its contentions:—

The case for the memorialists stated briefly. They ask for precisely the same law as in England.

- (1) The English Law of valuing houses for rating purposes is very fair and equitable.
- (2) This law, which is still in force in Calcutta as regards houses built for letting purposes, operated very fairly and equitably in the case of houses occupied by their owners which, with perhaps certain inevitable exceptions, were rated quite as high as they should have been.
- (3) Now, in order to prevent the English principle operating any longer, and to enhance the valuation of such houses, a new principle is introduced, which is most unfair and unjust in its operation, which considerably augments the valuation of houses occupied by their owners, and places them at a disadvantage compared with their fellow rate-payers in Calcutta.
- (4) And it is asked that 'such houses may be rated at the annual letting value to be determined with regard to the purposes for which they were built, and for which they are capable of being used.'

The last request, taken verbatim from the memorial, is excellent as a proposition of law and equity, but is entirely misapplied to the real desire of the memorialists. It is precisely because these houses were not being rated at a reasonable letting value, having regard to the purposes for which they were built—occupation by their owners—but at a letting value, having regard to a totally different purpose, i.e. hiring by a person not the owner, that the section was deemed necessary.

6. In commenting on this memorial, it must be understood at the outset that there is no possible room for doubt that if the quantity or quality of the accommodation enjoyed, or the money legitimately sunk in building such houses, is looked to, residential houses, that is houses built for occupation by their owners, are conspicuously under-valued as compared with other classes of buildings in Calcutta. The most cursory examination will show this, and also that it is not due to what would, if correct, be a complete answer *pro tanto*, the greater cheapness of the site. The land on which these houses stand is, if anything, more valuable and costs more than the land on which the average of houses built for letting purposes stand. This marked difference in valuation between the two classes of houses is more rather than less than twofold. What then do the memorialists mean when they protest against unfair treatment? They mean this, that the English law has, as they would say, wisely and equitably decided that not the money sunk in constructing a building, nor its size, nor its accommodation, nor any other test, is to be the standard of valuation for rating purposes, but such standard should be the rent for which it would let from year to year, and that tried by this test residential houses have been fully as highly assessed as they should be in Calcutta. They urged that it is unfair to discard this, the English test, because its operation is favourable to this class of houses, and to substitute for it, to their disadvantage, other tests which have not been adopted in England.

7. I do not think the case of the memorialists can be more fairly or forcibly put than this, and it is for the Government to say whether the reply to it is decisive or not. Briefly stated, the substance of this reply is (1) that in this particular matter the English standard is, for a special reason, manifestly ill-adapted to Calcutta; (2) that the English standard has been very erroneously applied in the past in Calcutta, and its correct application would present totally different results from those hitherto obtained.

- (1) There is surely no reason in the world why a standard which, having reference to English manners and customs, may have been deemed the best in England, should necessarily be followed in Calcutta, where, having reference to

In the particular point at issue, the English law is inapplicable.

local manners and customs, it is obviously defective. Yet this is transparently the case. In England there is no marked distinction between houses built for occupation by families and houses built for occupation by single men whose families live in the country; also there is no strong prejudice against living with a family in a hired house; hence the rent which a tenant may be willing to pay is perhaps on the whole in most cases the best practical test of the quality of the house. In Calcutta there is a marked and radical difference in structure between houses built by persons as a residence for their own families and all other houses built with the object of letting them, residences for Europeans, residences for native gentlemen without families, public offices, places of business, shops, &c. There is an efficacious demand for hiring the latter, there is no such demand for hiring family houses, and in explanation of this absence of demand, it has been freely admitted in evidence before me that so strong is the prejudice against maintaining one's family in a hired house that "a person would rather have two or three cottahs of his own with tiled huts to live in, than live in a hired pucca house." Even buying a house ready built by some one else is regarded as less desirable than building for oneself (see Appendix C). Hence a house built as a family residence is at a marked disadvantage in finding any tenant other than the owner compared with all other classes of houses, which depreciates its value very materially, probably 50 per cent. when tried by this test, alone. Surely no better reason could be adduced for urging that this test, however suitable elsewhere and for other classes of houses, is not suitable for this class of houses in Calcutta.

8. (II) This consideration alone seems to me to furnish ample justification for adopting some other standard of value in Calcutta for this class of houses, but, as a fact, the case is much stronger. The interpretation put by the memorialists upon the English law is one which the law courts and the authorities on the subject have frequently repudiated; and it is only its improper, not its proper, application which helps the memorialists. It is assumed, altogether wrongly, that a person occupying his own house is not a tenant, and that some other tenant must be found, and the rent this other tenant would pay be ascertained; whereas according to the English rulings an owner may be his own tenant, and the reasonable value of the tenancy to him is to be computed. This at once revolutionizes the standard. Just as a house built for occupation by its owner in Calcutta would have to be valued very low if the owner must find a tenant other than himself, so it should be valued very high if the value of the tenancy to himself is looked to. It is notorious that the 15 per cent. over and above the market value which the Land Acquisition Act requires to be paid, does not nearly reconcile owners in Calcutta to the acquisition of their family houses.

9. The English law on the subject of rating (6 and 7 William IV, C. 96) is that the net annual value of hereditaments shall be "the rent at which the same might reasonably be expected to let from year to year free of all tenants' rates and taxes, and title commutation charge, if any, and deducting therefrom the probable average annual cost of the repairs, insurance and other expenses, if any, necessary to maintain them in a state to command such rent."

10. Obviously this standard is much more easily applied to buildings which ordinarily are let, or at least are of the same class as others that ordinarily are let, than to buildings not intended to be let and ordinarily occupied by their owners. As regards the latter class of buildings, the system adopted,—I think I may say invariably adopted by English authorities,—is to assume a hypothetical tenant, and consider what rent such hypothetical tenant might reasonably be expected to pay for a year-to-year tenancy. So far all would be agreed, but the next questions are (a) whether the present occupier, be he the owner or otherwise, is to be excluded from the number of possible hypothetical tenants or not? and (b) how the value of the tenancy is to be computed? and we find that, when cases of this kind have come before the superior courts in England, they have decided that the owner of the building is to be regarded as a possible hypothetical tenant of his own property, and that the value of the tenancy to him may be calculated in precisely the same way as the Act calculates it.

11. (a) This was the very contention in the case of the Queen *versus* the School Board for London (55 L. J. Q. B. D. 53). The School Board in appeal contended, first, that the

The English standard has been misunderstood in Calcutta and erroneously applied.

In English law in such cases a hypothetical tenant is to be assumed.

Who may be the owner himself.

School Board owning the premises should not be supposed to be in the market anxious to rent premises, but should be excluded from the number of hypothetical tenants who might be supposed to be willing to rent the school premises; *second*, that the only true indication of rateable value was the rent for which the premises could in their present condition be let to a hypothetical tenant from year to year, supposing they were not used for Board Schools, but were applied to any other use or purpose for which they could be made available for a tenant.

12. The School Board's contention was not allowed. Cave, J., said—"When you want to find what a hypothetical tenant will give, you must not take a man who does not want the premises for the purpose for which they were built, but wants to use them for some other purpose, unless you can first show that they cannot be let for the purpose for which they were built." The case was appealed, and the decision upheld in appeal, Lord Esher, M.R., remarking that "in estimating the rent no tenant was excluded, and the actual occupier might be included *and the owner if he was the occupier*; and Lord Justice Bowen—"the test of rateable value was the rent for which the premises might reasonably be expected to let to a tenant. In estimating that in the present case, the rent for which the premises may be reasonably expected to be let to the Board themselves may be considered, for how could the only body likely to require the premises be excluded from the estimate, that is, why should the only body likely to require or use the premises be excluded from the estimate of rent payable."

13. A precisely similar case occurred at Madras, and was decided by the High Court there. The Madras Municipality rated the lying-in hospital at Rs. 1,000 a month, and in appeal the Magistrates reduced the assessment to Rs. 660; but at the request of the Municipality referred the matter to the High Court. The High Court decided in favour of the Municipality. The judgment expressly states that in rating property it must generally be assumed that the hypothetical tenant *must be in the same position, and use the building in the same way as the party rated, for the object is to ascertain its intrinsic value to the owner in its present condition*. The Madras High Court then refers at length to the School Board case above quoted, and concludes: "Having these principles in view, we are of opinion that the lying-in hospital should not be valued at the rent which it would fetch if it were offered in the open market without reserve: admittedly there is but one building in Madras specially eligible for use as a lying-in hospital, and it is occupied by the owner. If the owner, the only person likely to require the premises, were excluded from the market, then the hypothetical tenant would take advantage of the absence of demand for it, and pay no more than those who require it for use other than as a hospital would choose to pay."

14. Do not these decisions in principle apply exactly to the case of houses built for occupation by their owners? The owners are the only persons in Calcutta, looking to the known prejudice against living with a family in a hired house, who can possibly "use the building in the same way as the party rated," while the object of the memorialists is to get "the intrinsic value to the owner in its present condition" indefinitely depreciated by only considering as the hypothetical tenant one who, by the very fact of his not being the owner, cannot use the building in the same way as the party rated, and therefore cannot be expected to pay full value for the occupation.

15. (b) The owner, then, if he built the house for his own occupation, and actually does occupy it, must undoubtedly be regarded as among the possible hypothetical tenants; and the question then arises, how is the rent which he may reasonably be expected to pay to be estimated?

And must pay a fair return on the capital legitimately invested.

16. No doubt a comparison with other houses that are built for letting purposes in Calcutta is a perfectly fair method of valuation, but this would raise the assessment of these houses far more than the system in the new Act. If residential houses are compared with houses built for the purpose of letting, whether as regards the number of their rooms, their superficial area, their cubical contents, the amount of brickwork, the conveniences they offer, or any similar standard of comparison, the valuation thus ascertained would be decidedly in excess of what they are now being valued at. What the owners want is that they should be compared, not with this class of houses, but with the few residential houses which the owners have for some reason or other been

compelled to leave, and for which they have been compelled to obtain such tenants as they can get, with no market, and all the well-known prejudices against this form of living! Is it not enough to state this claim to secure its rejection by any right-minded disinterested person?

17. But though this distinction between dwelling-houses built for letting and dwelling-houses built for the residence of the owner is not prevalent in England, there are plenty of buildings which furnish us with an indication of how the law would be applied under similar circumstances. Large manufactories cannot easily be let, and in the case of *R. versus Hampton* (28 L. J. M. C., 135) Mr. Justice Wightman said: "When in practice a tenant for property not usually let has rarely, if ever, been known, a hypothetical tenant must be assumed, and the terms of such tenancy are not difficult to be conceived. The hypothetical tenant must be assumed to pay the rent of the land and *adequate remuneration for fixed capital invested therein*, and the local rateable value would be such a sum as would pay the rent of the land and profit on fixed capital therein." Similarly in the case of a light-house, the decision was: "Where a building would not let, but is valuable to the owners, the annual value must be calculated *on the rent of the land and fair interest on the expense of the building*" (*The Blyth Harbour and Dock Company versus Guardians of Tynemouth Union Glens Archbold*, page 41).

18. There are many other similar decisions in the case of hospitals, railway stations, reservoirs, &c., which abundantly justify even from English precedents the principle of the Act, which may be thus stated, "that when a hypothetical tenant has to be assumed (*i.e.* in the case of houses not built for letting purposes) he shall be presumed to pay 5 per cent. as annual rental on the value of the land, plus 5 per cent. on the estimated present cost of constructing the building, less depreciation, unless exceptional circumstances can be adduced which make 5 per cent. excessive, when any lower percentage can be taken."

19. I do not think we are bound slavishly to follow English law in India when it can be shown that in regard to the question in point, sentiments, manners and customs are different; but even if English precedent is to be our guide, I think we have abundant grounds to infer that the principle adopted of rating a hypothetical tenancy has been over and over again affirmed by English decisions.

20. The memorialists, however, refer to the rating of "mansions" in England as helping their case; but the rating of English mansions furnishes no real parallel to that of residential houses in Calcutta. If there is any real parallel to the English mansion in Calcutta, it is to be found in Government House, the Museum, Writers' Buildings, the High Court and other large public buildings, which have been always fully valued in Calcutta, the cost price in the case of all recent buildings being the test usually taken to ascertain the rent which the hypothetical tenant should pay. As I do not wish to encumber this reply with a long digression on the subject of the rating of English mansion houses, I have appended a note which will, I think, satisfy any one who reads it that, abuse as it has been, this system affords no real support to the case of the memorialists: in fact that English surveyors are now dealing with it in a very similar way to that which Act II (B.C.) of 1888 adopts in dealing with the somewhat similar abuse in Calcutta.

INEQUALITIES OF RATING UNDER THE OLD ACT.

21. Having written this much by way of direct reply, I will now state why in my judgment it was desirable, when the Municipal Act was being recast, to modify the assessment chapter, and then to vindicate the precise character of the amendments introduced. For this purpose I must first explain what were the rating inequalities in Calcutta under the old law.

Why the change in the new Act was necessary.
Inequalities and iniquities of rating in Calcutta under the old Act explained.

22. The rate-paying community in Calcutta may, for practical purposes, be divided into the following groups:—

- (1) Occupiers of offices, shops, places of business, &c., mainly built for letting purposes, though sometimes owned by their occupiers.
- (2) Occupiers of residences built for letting purposes.
- (3) Owners of the above offices or residences when not the occupiers.
- (4) So called owners who are also the occupiers of tiled huts in bustees.
- (5) Owners of bustee lands.

(6) Owners living in their own houses, built for such occupation and not for letting purposes.

(7) Owners who are also occupiers of public buildings, not built for letting purposes, mostly Government or the Port Commissioners.

23. In rating the premises occupied by all these persons, one and

No deduction allowed for repairs. the same rule under the old Act applied; not the English rule quoted above, for the English

rule allows a deduction from the gross rent which a tenant may reasonably be expected to pay from year to year, sufficient to defray all rates and taxes and to keep the building in a state of repair such as to enable it to continue to command the rent, but (section 104) the rule that the annual assessment shall be the *estimated gross annual rent at which the house or land might reasonably be expected to let from year to year*. So far as I can ascertain, this exception in Calcutta to the ordinary rule was due to an entirely mistaken impression that, as the deductions would be approximately uniform, it would make no difference whether they were made or not made. If 20 per cent. were allowed of the gross rent to find the rateable value, 20 per cent. must be added, it was said, to the rate to balance this deduction, and the outcome would be the same. That this was fallacious, and therefore that the Calcutta rule was unfair, is easily shown. Tiled huts need a great deal more repairs than pucca buildings. A tiled hut owner has probably to spend at least 25 per cent. of the rental to keep it in repair; the owner of a pucca house not more than 10 to 15 per cent. Again, land needs no repairs at all; hence no deduction for repairs in this case should be allowed. Public offices were usually valued in accordance with the system of the new law, Government admitting the equity of the test. The capital spent upon them being known, from 5 to 6 per cent. on the outlay was taken as the rent which a hypothetical tenant would pay*. Houses occupied by their owners were valued, as already explained, on the assumption that the hypothetical tenant must be some one other than the present occupant, and therefore some one not wanting the house, and with a strong sentiment against living with his family in a hired family house.

24. Hence on a fair probable estimate it may be said that group (4), tiled hut owners, had their huts overvalued by about 25 per cent.

Groups (1), (2), and (3), occupiers and owners of houses and offices built for letting purposes, had their houses and offices overvalued by about 15 per cent.

Group (5), owners of bustee lands, were correctly valued, *i.e.* relatively but not absolutely undervalued.

Group (7), owners and occupiers of large public buildings, were similarly correctly valued: 5 to 6 per cent. was taken as the net return and not the gross return on house property, and therefore the valuation was fair *per se*, but relatively to groups (1) to (4) they were also undervalued.

Group (6) was undervalued by 30 to 50 per cent. if tested by comparison with the rule for valuing Government buildings, or by still more if tested by comparison with the accommodation, cost or cubical space of houses built for letting purposes.

25. The above is an approximate estimate of the inequalities of valuation in

It was the more necessary to redress these inequalities because the class benefitting by them was the very class which, if any, ought to pay most.

Calcutta under the old Act, assuming that taxation of property for the purposes of municipal administration should be proportioned to its value. On the whole, looking to the enormous difficulty of fixing differential rates for different classes and sizes of property, it is probably best to levy rates in proportion to value, taking care only to secure the best and most correct standard of value; it may be many years before even in England this system is departed from, and I therefore never suggested any departure from it in the new Act. The valuation of one class of houses at 5 per cent. was intended to be a fair equivalent to the net rental, *i.e.*, gross rental less 10 per cent. payable by the other class; but in considering the urgency of redressing existing inequalities, it is obviously a matter of importance to see how the question of general equity stands. Economic science points out very clearly which are the classes that benefit most, and which those that suffer most from the equal rating system, and it is surely very significant of the equities of this question in

* There is reason to fear, however, that in some cases the Commissioners have fixed the hypothetical rent of such buildings much too high, such as the Port Commissioners' Office and the Bank of Bengal. The new section may in such cases prove as equitable in pruning down excessive valuations as in running up those which were too low.